## VPDES PERMIT PROGRAM FACT SHEET FILE NO: 650

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a **MINOR MUNICIPAL** permit.

PERMIT NO.: VA0024457 1. EXPIRATION DATE: 8/22/09 2. FACILITY NAME AND LOCAL MAILING FACILITY LOCATION ADDRESS (IF DIFFERENT) ADDRESS US-NASA Wallops Flight Facility Wallops Island, VA 23337 Building F6 Wallops Island, VA 23337 CONTACT AT FACILITY: CONTACT AT LOCATION ADDRESS NAME: Ms. Caroline R. Massey NAME: Monica Borowitz TITLE: Asst. Director Management Operations TITLE: Lab Supervisor **PHONE:** (757) 824-1959 **PHONE:** (757) 824-1023 3. **OWNER CONTACT:** (TO RECEIVE PERMIT) CONSULTANT CONTACT: NA NAME: Ms. Caroline R. Massey NAME: TITLE: Asst. Director Management Operations FIRM NAME: COMPANY NAME: US-NASA Wallops Flight Facility ADDRESS: Building F6 Wallops Island, VA 23337 **PHONE:** (757) 824-1959 PERMIT DRAFTED BY: DEQ, Water Permits, Regional Office Permit Writer(s): Sauer Date(s): June, 2009 Reviewed By: McConathy Date(s): 06/30/3009 5. PERMIT ACTION: (X) Reissuance ( ) Revoke & Reissue ( ) Owner Modification ( ) Board Modification ( ) Change of Ownership/Name [Effective Date: 6. SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS: Attachment Site Inspection Report/Memorandum Attachment\_ Discharge Location/Topographic Map Attachment 3 Schematic/Plans & Specs/Site Map/Water Balance Attachment 4 TABLE I - Discharge/Outfall Description Attachment 5 TABLE II - Effluent Monitoring/Limitations Attachment 6 Effluent Limitations/Monitoring Rationale/Suitable Data/Antidegradation/Antibacksliding Attachment Special Conditions Rationale Attachment 8 Material Stored Attachment 9 Receiving Waters Info./Tier Determination/STORET Data/Stream Modeling / 303(d) Listed Segments Attachment 10\_ TABLE III(a) and TABLE III(b) - Change Sheets Attachment 11 NPDES Industrial Permit Rating Worksheet and EPA Permit Checklist Chronology Sheet Attachment 12

Attachment 13

APPLICATION COMPLETE: March 3, 2009 upon VDH

Pertinent Correspondence / Public Participation

PERMIT CHARACTERIZATION: (Check	as many as appropriate)
(X) Existing Discharge	(X) Effluent Limited
( ) Proposed Discharge	(X) Water Quality Limited
(X) Municipal	() WET Limit
SIC Code(s) 9661	( ) Interim Limits in Permit
( ) Industrial	( ) Interim Limits in Other Document
SIC Code(s)	( ) Compliance Schedule Required
( ) POTW	( ) Site Specific WQ Criteria
(X) PVOTW	( ) Variance to WQ Standards
( ) Private	( ) Water Effects Ratio
(X) Federal	( ) Discharge to 303(d) Listed Segment
( ) State	( ) Toxics Management Program Required
( ) Publicly-Owned Industrial	( ) Toxics Reduction Evaluation
	( ) Storm Water Management Plan
	( ) Pretreatment Program Required
	( ) Possible Interstate Effect
	( ) CBP Significant Dischargers List

7.

#### 8. RECEIVING WATERS CLASSIFICATION: River basin information:

#### Outfall No. 001

Receiving Stream:

UTRIB to Little Mosquito Creek

River Mile:

2.80

Basin:

Chesapeake Bay, Atlantic and Small Coastal

Subbasin: Section:

NA

Class:

1b

Special Standard(s):

II (Limited as fresh water receiving stream)

Tidal:

No

Outfall No. 003

Receiving Stream:

UTRIB to Little Mosquito Creek

River Mile:

Basin:

Chesapeake Bay, Atlantic and Small Coastal

Subbasin:

Section:

1b

Class:

II

Special Standard(s):

a

Tidal:

Yes

#### Outfall No. 004

Receiving Stream:

UTRIB to Little Mosquito Creek

River Mile:

Basin:

Chesapeake Bay, Atlantic and Small Coastal

Subbasin:

NA

Section:

1b

Class:

ΙI

Special Standard(s):

а

Tidal:

Yes

#### Outfall No. 005

Receiving Stream:

UTRIB to Little Mosquito Creek

River Mile:

Basin:

Chesapeake Bay, Atlantic and Small Coastal

Subbasin:

NA

Section:

1b

II

Class: Special Standard(s):

Tidal:

Yes

#### Outfall No. 006

Receiving Stream:

UTRIB to Little Mosquito Creek

River Mile:

0.32

Basin:

Chesapeake Bay, Atlantic and Small Coastal

Subbasin:

NA

Section:

1b

Class: Special Standard(s): II а

Tidal:

Yes

#### RECEIVING WATERS CLASSIFICATION: River basin information (continued):

#### Outfall No. 007

Receiving Stream: UTRIB to Little Mosquito Creek

River Mile: 0.33

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: NA
Section: 1b
Class: II
Special Standard(s): a
Tidal: Yes

#### Outfall No. 008

Receiving Stream: UTRIB to Little Mosquito Creek

River Mile: 1.45

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: NA
Section: 1b
Class: II
Special Standard(s): a
Tidal: Yes

#### Outfall No. 009

Receiving Stream: UTRIB to Jenney's Gut

River Mile: 0.40

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: NA
Section: 1b
Class: II
Special Standard(s): a
Tidal: Yes

#### Outfall No. 010

Receiving Stream: UTRIB to Jenney's Gut

River Mile: 0.47

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: NA
Section: 1b
Class: II
Special Standard(s): a
Tidal: Yes

#### Outfall No. 012

Receiving Stream: UTRIB to Little Mosquito Creek

River Mile: 1.90

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: NA
Section: 1b
Class: II
Special Standard(s): a
Tidal: Yes

#### RECEIVING WATERS CLASSIFICATION: River basin information (continued):

#### Outfall No. 013

Receiving Stream: UTRIB to Little Mosquito Creek

River Mile: 0.48

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: Section: 1b Class: II Special Standard(s): a Tidal: Yes

#### Outfall No. 014

Receiving Stream: UTRIB to Simoneaston Bay

River Mile: 0.56

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: Section: 1b Class: ΙI Special Standard(s): а Tidal: Yes

#### Outfall No. 302

Receiving Stream: UTRIB to Little Mosquito Creek

River Mile: 0.35 Miles to Outfall 003

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: NA Section: 1b Class: ΙI Special Standard(s): a Tidal: Yes

Outfall Nos. 021, 022, 023, 024

Receiving Stream: UTRIB to Little Mosquito Creek

River Mile:

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: Section: 1b Class: II Special Standard(s): a Yes

#### Outfall Nos. 031, 032, 033, 034, 035

Receiving Stream: Cat Creek

River Mile:

Basin: Chesapeake Bay, Atlantic and Small Coastal

Subbasin: Section: Class: ΙI Special Standard(s): Tidal: Yes

Outfall Nos. 036, 037,	030 030
Odciaii Mos. 030, 037,	036, 039
Receiving Stream:	Hog Crook
River Mile:	Hog Creek
Basin:	
Subbasin:	Chesapeake Bay, Atlantic and Small Coastal
	NA
Section:	1b
Class:	II
Special Standard(s):	a
Tidal:	Yes
FACILITY DESCRIPTION:	Describe the type facility from which the discharges
originate.	
Existing municipal dis	charge resulting from the discharge of treated domestic
sewage and storm water	from a space research and development facility.
LICENSED OPERATOR REQU	IREMENTS: ( ) No (X) Yes Class: II
	•
RELIABILITY CLASS: I	
•	
SITE INSPECTION DATE:	7/25/07 <b>REPORT DATE:</b> 7/27/07
<b>Performed By:</b> S. Thoma:	S .
SEE ATTACHMENT 1	
DISCHARGE(S) LOCATION 1	DESCRIPTION: Provide USGS Topo which indicates the discharge
location, significant	(large) discharger(s) to the receiving stream, water intakes,
and other items of inte	erest.
Name of Topo: Hallwood	, Chincoteague West Quadrant No.:142A, 141B SEE ATTACHMENT 2
	Z
ATTACH A SCHEMATIC OF	THE WASTEWATER TREATMENT SYSTEM(S) [IND. & MUN.]. FOR
INDUSTRIAL FACILITIES.	PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND
ACTIVITIES. FOR MUNICI	IPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE
TREATMENT PROVIDED.	INCLUDE A GENERAL DESCRIPTION OF THE
SEE ATTACHMENT 3	
<del></del>	
DISCHARGE DESCRIPTION:	Describe each discharge originating from this facility.
	besofted each arbeharge originating from this facility.
SEE ATTACHMENT 4	
COMBINED TOTAL FLOW:	

9.

10.

11.

12.

13.

14.

15.

16.

TOTAL: 0.3 MGD (for public notice)

DESIGN FLOW: 0.3 MGD (MUN.)

NONPROCESS/RAINFALL DEPENDENT FLOW: \_\_\_\_\_(Est.)

- 17. STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS: (Check all which are appropriate)
  - X State Water Control Law
  - X Clean Water Act
  - X VPDES Permit Regulation (9 VAC 25-31-10 et seq.)
  - X EPA NPDES Regulation (Federal Register)
    - \_\_ EPA Effluent Guidelines (40 CFR 133 or 400 471)
  - X Water Quality Standards (9 VAC 25-260-5 et seq.)
  - $\underline{\underline{X}}$  Wasteload Allocation from a TMDL or River Basin Plan
- 18. **EFFLUENT LIMITATIONS/MONITORING**: Provide all limitations and monitoring requirements being placed on each outfall.

#### SEE TABLE II - ATTACHMENT 5

19. EFFLUENT LIMITATIONS/MONITORING RATIONALE: Attach any analyses of an outfall by individual toxic parameter. As a minimum, it will include: statistics summary (number of data values, quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or antibacksliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

#### OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

VARIANCES/ALTERNATE LIMITATIONS: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

N/A

**SUITABLE DATA**: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate information/calculations.

All suitable effluent data were reviewed.

**ANTIDEGRADATION REVIEW:** Provide all appropriate information/calculations for the antidegradation review.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

**ANTIBACKSLIDING REVIEW:** Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).

#### SEE ATTACHMENT 6

20. **SPECIAL CONDITIONS RATIONALE**: Provide a rationale for each of the permit's special conditions.

#### SEE ATTACHMENT 7

21. TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE:

Provide the justification for any toxics monitoring program and/or toxics reduction program and WET limit.

#### SEE ATTACHMENT N/A

22. SLUDGE DISPOSAL PLAN: Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge from the WWTP is dried in drying beds on site for at least 90 days then transported to the Accomack County North Landfill for final disposal.

23. MATERIAL STORED: List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

#### SEE ATTACHMENT 8

24. RECEIVING WATERS INFORMATION: Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied. Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

#### SEE ATTACHMENT 9

25 <u>305(b)/303(d) Listed Segments</u>: Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to an unnamed tributary to Little Mosquito Creek. This receiving stream segment has been listed on the 305(b)/303(d) list for protection of shell fish. A TMDL has been prepared and approved for this stream segment. The permit has water quality-based limits for fecal coliform which have been achieved and require compliance with the standard prior to discharge. Given these limits, this facility can neither cause or contribute to a violation of the standards. The permit contains a TMDL reopener clause which will allow these limits to be modified, in compliance with Section 303(d)(4) of the Act if the TMDL is revised and approved.

26. CHANGES TO PERMIT: Use TABLE III(a) to record any changes from the previous permit and the rationale for those changes. Use TABLE III(b) to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

#### 27. NPDES INDUSTRIAL PERMIT RATING WORKSHEET:

N/A - This is a municipal facility.

28. DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from DEQ planning.

The discharge is in conformance with the existing planning documents for the area.

29. <u>PUBLIC PARTICIPATION:</u> Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitation and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit.

The DSS provided comments by letter dated March 3, 2009. The DSS stated that the project will go to condemned shellfish waters and will not cause an increase in the size or type of the closure.

**EPA COMMENTS RECEIVED ON DRAFT PERMIT:** Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date July 29, 2009

End Date August 28, 2009

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/ reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Mark H. Sauer at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2105 E-mail: mark.sauer@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:

## ATTACHMENT 1

SITE INSPECTION REPORT/MEMORANDUM



## COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard, Virginia Beach, Virginia 23462 (757) 518-2000 Fax (757) 518-2103 www.deq.virginia.gov

David K. Paylor Director

Francis L. Daniel Regional Director

AUG 2 4 2007

Mr. Glenn D. Lilly Head Facilities Management Branch NASA Wallops Island Flight Facility Building N-161 Code 228 Wallops Island, VA 23337

Re: Technical Inspection Report Permit No. VA0024457

Dear Mr. Lilly:

L. Preston Bryant, Jr Secretary of Natural Resources

Enclosed is a copy of the technical inspection report prepared for the inspection conducted on July 25, 2007. There were no recommendations noted for this report. My appreciation and thanks to your staff for the cooperation and assistance readily given. If you have any questions regarding this report, please feel free to contact me at the above address or telephone (757) 414-0750.

Sincerely,

Stephen J./Thomas

Environmental Specialist II

Enclosure

cc: DEQ/OWCP: Steve Stell

DEQ/TRO: File

Facility:	NASA WALLOPS ISLAN	LIGHT FACILITY
County/city;	ACCOMACK	

VPDES NO. VA0024457

# DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER FACILITY INSPECTION REPORT PART 1

Inspection date:		7/25/2007				Date form completed:				7/27/2007		
Inspection by:		Step	ohen J.	Thoma	s Ir	nspection agency:				DEQ/TRO		
Time Spent With Inspec Report:	·		7 Hou	rs	A	Announced Inspection: [x]Yes []No				] No		
Reviewed by: Kenneth	Reviewed by: Kenneth T. Raum				Pho	tograph	s taken at	site? [:	Yes [	] No		
Present at inspection: Josh Bundick, Paul Bull, Patr				rick Ta	albot, Cl	lifford Tay	/lor & Jack	Chandler	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
FACILITY TYPE:					FAC	CILITY C	LASS:					
( ) Municipal					( )	Major		•				
( ) Industrial						( x	) Minor					
(x) Federal					-	( )	Small					
( ) VPA/NDC				( )	High Pr	iority	( ) Low	Priority				
TYPE OF INSPECTION												
Routine	x	Rei	inspectio	n			Cor	mpliance/a	assistance/d	complaint		
Date of previous inspect	ion:		6/7/2005							DEQ/TRO		
Population Served:		1200 Connections Ser			ctions Se	erved:	rved: Unknown					
B-000000000000000000000000000000000000												
Last Month Average: Influent May 2007		BOD₅ (mg/l)	141	TS (mg		98		Flow MGD)				
Last Month Average: Influent May 2007		(mg/l)		TS (mg		98						
Last Month Average: Influent May 2007  Last Month Average: Effluent June 2007		(mg/l)	141	TS (mg	g/I)	98	(1		.050	TKN (mg/l)	.72	
Influent May 2007  Last Month Average:		(mg/l) Other: BOD₅ (mg/l)	141 pH 6.8 –	7.5 TS (mg	g/l) SS g/l)	<1	(1	MGD)	.050	TKN	.72	
Last Month Average: Effluent June 2007  Last Quarter Average: Effluent April – June		(mg/l) Other: BOD₅ (mg/l)	141 pH 6.8 –	7.5 TS (mg	g/l) SS g/l) 7.1 mg	<1	(I	MGD)	.050	TKN	.72	
Influent May 2007  Last Month Average: Effluent June 2007  Last Quarter Average:		Other:  BOD <sub>s</sub> (mg/l)  Other:  BOD <sub>s</sub>	141 pH 6.8 – < 5 oH: 6.5 –	7.5 TS (mg	g/l) SS g/l) 7.1 mg	<1 // Fec:	(I al <3	Flow MGD)		TKN (mg/l)		
Last Month Average: Effluent June 2007  Last Quarter Average: Effluent April – June		(mg/l) Other: BOD <sub>s</sub> (mg/l) Other: BOD <sub>s</sub> (mg/l)	141 pH 6.8 – < 5 pH: 6.5 – < 5	7.5 TS (mg	g/l) SS g/l) 7.1 mg	<1 // Fec:	(I al <3	Flow MGD)		TKN (mg/l)  TKN (mg/l)		
Influent May 2007  Last Month Average: Effluent June 2007  Last Quarter Average: Effluent April – June 2007	le Re	(mg/l) Other: BOD <sub>s</sub> (mg/l) Other: BOD <sub>s</sub> (mg/l) Other:	141 pH 6.8 – < 5 pH: 6.5 – < 5	7.5 TS (mg 6.8 DO TS (mg 6.9 DO	g/l) SS g/l) 7.1 mg	<1 // Fec:	(I al <3	Flow MGD)	.046	TKN (mg/l)  TKN (mg/l)	.75	
Last Month Average: Effluent June 2007  Last Quarter Average: Effluent April – Jun 2007  Data verified in preface:	constru	(mg/l) Other: BOD <sub>s</sub> (mg/l) Other: BOD <sub>s</sub> (mg/l) Other: ction?	141 pH 6.8 – < 5 pH: 6.5 – < 5 pH 6.4 –	7.5 TS (mg 6.8 DO TS (mg 6.9 DO dated?	g/l) SS g/l) 7.1 mg	<1 // Fec:	(I al <3	Flow MGD) Flow MGD)	.046	TKN (mg/l) TKN (mg/l)	.75	
Last Month Average: Effluent June 2007  Last Quarter Average: Effluent April – June 2007  Data verified in preface: Has there been any new	constru	(mg/l) Other: BOD <sub>s</sub> (mg/l) Other: BOD <sub>s</sub> (mg/l) Other: ction?	141 pH 6.8 – < 5 pH: 6.5 – < 5 pH 6.4 –	7.5 TS (mg 6.8 DO TS (mg 6.9 DO dated?	g/l) SS g/l) 7.1 mg	<1 // Fec:	(I al <3	Flow MGD) Flow MGD) NO C	.046	TKN (mg/l)  TKN (mg/l)	.75	

FACILITY: NASA Wallops Island Flight Facility VA0024457 PLANT OPERATION AND MAINTENANCE 1. Class/number of licensed operators: П 5 Ш IV 2 Trainee 2. Hours per day plant manned? 16 Hours 3. Describe adequacy of staffing GOOD **AVERAGE** X **POOR** 4. Does the plant have an established program for training personnel YES NO х 5. Describe the adequacy of training GOOD **AVERAGE POOR** Are preventative maintenance tasks scheduled YES NO 6. X 7. Describe the adequacy of maintenance GOOD X **AVERAGE POOR** Does the plant experience any organic/hydraulic overloading? YES NO X 8. If yes, identify cause/impact on plant 9. Any bypassing since last inspection? YES NO X 10. Is the standby electrical generator operational? YES NO X NA How often is the standby generator exercised? Weekly 11. Power transfer switch? Monthly ALARM SYSTEM? N/A 12. When was the cross connection last tested on the potable supply? 10/26/06 13. Is the STP alarm system operational? YES NO NA X is sludge disposed in accordance with an approved SMP 14. YES. NO NA X. Is septage received by the facility? YES NO Is septage loading controlled? YES X NO NA 15. Are records maintained? YES NO NA

	· ·				
OVERALL APPEARANCE OF FACILITY	0000	i	41/50105		1 1
OVEL WILL APPEARANCE OF FACILITY	GOOD	X	AVERAGE	l POOR	1 11
				, , , , , , , , , , , , , , , , , , , ,	[

X

COMMENTS: The facility was found in good overall condition.

FAC	ILITY: NASA Wallops Island Flight Sacility		VA002445
	PROBLEMS IDENTIFIED AT LAST INSPECTION:	CORRECTED	NOT CORRECTED
	No problems were noted during the last inspection.		
		-	
		·	
· ·			
1881 A.S.	SUMMARY		-
	INSPECTION COMMENTS:		
	This inspection found the wastewater treatment plant and associated compoundition during my inspection. The treatment plant appears to be well mai	oonents in satisfa intained and oper	ctory operating ated.
	The facility has a permit required copper compliance limit deadline of Augu of a metals removing process for the facility is scheduled to begin soon. I required quarterly progress reports to DEQ.	st 23 2008 Desi	an and construction
	During the inspection, it was discovered that your facility is still performing requirements. These requirements were outlined in the Certificate To Opera dated July 12, 1999. The performance period was for 12 consecutive month system has proved it can meet discharge effluent limitations for fecal Coliferand reporting can be discontinued on 8/1/2007.	ite for the existing	treatment plant
	I would like to thank the Mr. Josh Bundick, Mr. Clifford Taylor, Mr. Jack Cha Talbot, and for their cooperation during the inspection.	ındler, Mr. Paul B	ull, and Mr. Patrick
			-
	COMPLIANCE RECOMMENDATIONS FOR ACT	ION	
	There are no recommendations for action at this time.		
			•

## DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER FACILITY INSPECTION REPORT PART II

#### **Unit Process Evaluation Summary Sheet\***

UNIT PROCESS	APPLICABLE	COMMENTS
SEWAGE PUMPING	x	
FLOW MEASUREMENT	х	·
SCREENING/COMMINUTION	x	
GRIT REMOVAL	x	·
FLOW EQUALIZATION	x	
PONDS/LAGOONS		
OIL/WATER SEPARATOR		
PRIMARY SEDIMENTATION		
ACTIVATED SLUDGE AERATION	x	
TRICKLING FILTERS		
ROTATING BIOLOGICAL CONTACTORS		
SEPTIC TANK/SAND FILTER / IMHOFF TANK		
SECONDARY SEDIMENTATION	x	
RAPID MIX/FLOCCULATION		,
TERTIARY SEDIMENTATION		
FILTRATION	x	
MICRO-SCREENING		
ACTIVATED CARBON ADSORPTION		
CHLORINATION		
DECHLORINATION		
OZONATION		
ULTRAVIOLET DISINFECTION	x	
POST AERATION	x	
LAND APPLICATION-EFFLUENT		
EFFLUENT/PLANT OUTFALL	x	
	1 .	
SLUDGE PUMPING		
FLOTATION THICKENING (DAF)		
GRAVITY THICKENING		
AEROBIC DIGESTION		
ANAEROBIC DIGESTION	X	
LIME STABILIZATION		
CENTRIFUGATION		
PRESSURE FILTRATION (SLUDGE)		
VACUUM FILTRATION		
DRYING BEDS		
THERMAL TREATMENT	X	
INCINERATION		
COMPOSTING		
LAND APPLICATION-SLUDGE		

#### STANDARD COMMENTS:

- 1. UNIT NEEDS ATTENTION
- 2. ABNORMAL INFLUENT/EFFLUENT
- 3. EVIDENCE OF EQUIPMENT FAILURE
- 4. UNAPPROVED MODIFICATION OR TEMPORARY REPAIR
- 5. EVIDENCE OF PROCESS UPSET

#### \*REFER TO INDIVIDUAL UNIT PROCESS EVALUATION FORMS

UNIT PROCESS: Pump Station (CONTINUED)

	F						YES	NO	NA
	CONTINUOUS OPERABILITY PI	ROVISIONS	Generator	х	Portable Pump				
24.	(1) Day Storage	(2) Sour	(2) Sources of Electricity Other:						
25.	Does the station have a bypass?			•				x	
26.	Evidence of bypass in use?								x
27.	Can the bypass be disinfected?		•						х
28.	Can the bypass be measured?								х
29.	How often is the station checked?	?			Daily			L	

GENERAL CONDITION:	GOOD -	ĺ	FAIR		DOOD	l i
	0000		· FAIR	X	POOR	<b>i</b> 1
					<u> </u>	<u> </u>

COMMENTS: All stations are receiving new submersible pumps and the ventilation fans are being reconditioned.

, ,		,
		- 1
UNIT PROCESS:	ACTRIATED CLUBOR	- 1
OMITT NOOLOG.	ACTIVATED SLUDGE	- 1
		- 1

	T								YES	NO	NA
1.	Number	of aeration units	S			2					
2.	Number	units in operation	on ·			1					
3.	Mode of	operation:		Ex	tended Aer	ation					
4.	Proper f	low distribution t	etween units								х
5.	Foam co	Foam control operational									
6.	Scum co	ontrol present							х		
7.	Dead sp	ots								х	
8.	Excessiv	ve foam		·.	-					х	
9.	Poor ae	ration								х	
10.	Excessiv	/e scum								х	
11.	Aeration	equipment mal	unction		•			-		x	
12.	Other pr	oblem(s):								х	
13.	Effluent	control devices	working properl	y (OXIDATION I	DITCHES)						х
14.		MIX	KED LIQUOR (	CHARACTER	ISTICS AS .	AVAILABLE:				5 t.	
	pH (s.u.)	6.6	MLSS (mg/l)	3248	DO (mg/l)	4.8	SVI				-
	Odor	Slight septic	Settleab	ility (ml/l)	24 %	(30 min)	SDI				
	Color	Dark E	rown						-		
15.			RETURN	IWASTE SL	UDGE RATI	ES:				2.34 2.55	
	Return Rate	100%	Waste Rate	700 GPD	1	Vaste quency		Daily			
16.			AERAT	ION SYSTEM	A CONTRO	L;	<del></del>				
	Time (	Clock	Manual Fee	d	Contin	uous Feed		x			:
	Other:						•				N.

GENERAL CONDITION:	GOOD	х	FAIR	POOR	

COMMENTS:

The plant only uses one aeration basin at this time, due to low influent flow into the system. The aeration basins are switched over each year. The basin that is not in use is cleaned and maintenance is performed at this time. The basins are scheduled to be switched the weekend of July 21, 2007.

UNIT PROCESS: ULTRAVIOLET (UV) DISINFECTION

	,	-		YES	NO	NA
1.	Number of UV lamps/assemblies	. 32	- W			
2.	Number units in operation	16				
3.	Type of UV system and design dosage	Trojan 3000				4
4.	Method of UV intensity monitoring	UV Intensity Meter	16.1			3 A
5.	Proper flow distribution between units?					х
6.	Adequate ventilation of ballast control boxes			x		
7.	Indication of on/off status of all lamps provided			x		
8.	Lamp assemblies easily removed for maintenance	)	· · · · · · · · · · · · · · · · · · ·	х		
9.	Records of lamp operating hours and replacement	Records of lamp operating hours and replacement dates provided				
	Routine cleaning system provided		х			
	System operating properly			x		
10.	Frequency of routine cleaning	Once every two wee	ks			
11.	Lamp energy control system operating properly	•		x	March 1971	
	Date of last system overhaul	7-20-	2007			
	UV unit completely drained		X			
	All surfaces cleaned	x				
	UV transmissibility checked	x				
	Output of selected lamps checked		x			
	Output of tested lamps					
	Total operating hours of oldest lamp/assembly	nown				
12.	Number of spare lamps/ballasts available	16	2			
13.	UV protective eyeglasses provided			x		

GENERAL CON	NDITION:	GOOD	x	FAIR	POOR	
COMMENTS:	10. When th	e UV intensity meter d	rops to	4.0 the unit is cleaned.		

UNIT PROCESS:

EFFLUENT/PLANT OUTFALL # 001

								YES	NO	N/
1.	Type of ou	tfall .		Sh	ore Based	×	Submerged			
			TYP	E IF SHO	DRE BASE	D:				
2.	Wingwa	II ·	Headwall	x	Rip Ra	p	Pipe	W. S. S.		
3.	Flapper va		x							
4.	Erosion of	Erosion of bank area?								
5.	Effluent plu	ume visible?							х	
	Condition	of outfall and	the supporting st	ructure?		***************************************				
6.	GOOD		FAIR	x	POOF	₹.				
	FINAL EFFLUENT, EVIDENCE OF FOLLOWING PROBLEMS?									
	Oil sheen?	•							x	
	Grease?								х	
	Sludge bar?								×	
	Turbid efflo	uent?							x	
	Visible foa	m?				-			x	
7.	Unusual co	olor?							×	
				-						
GENE	RAL CONE	DITION:	GOOD		x	FAIR		POOR		

at the outfall was clear at the time of the inspection.

COMMENTS:

UNIT PROCESS:

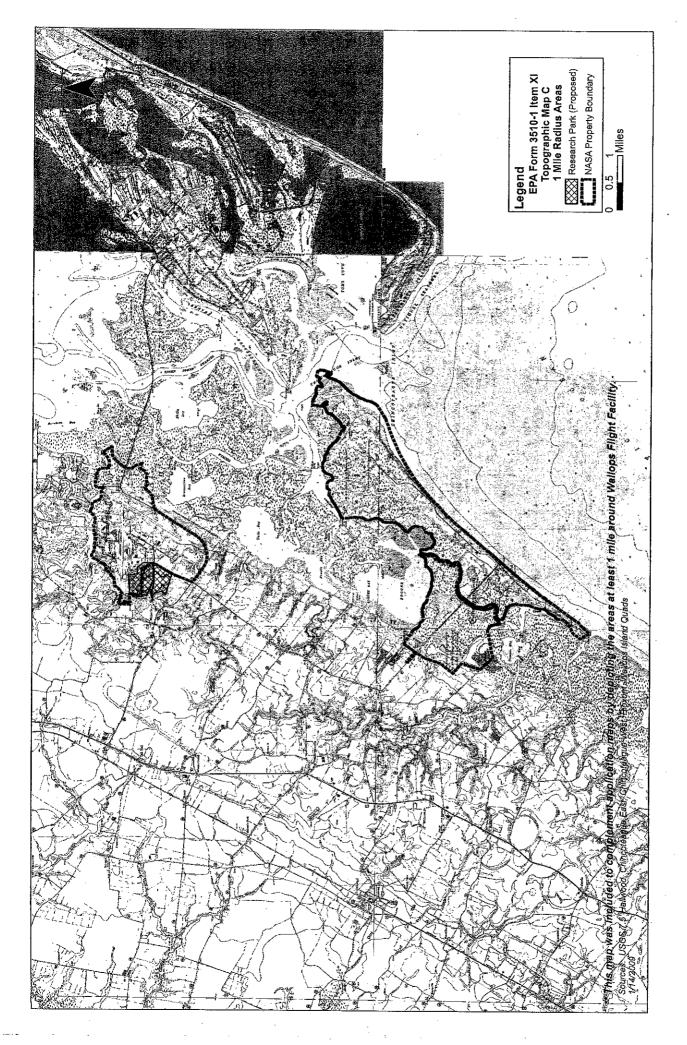
OUTFALL # 003 (STORMWATER)

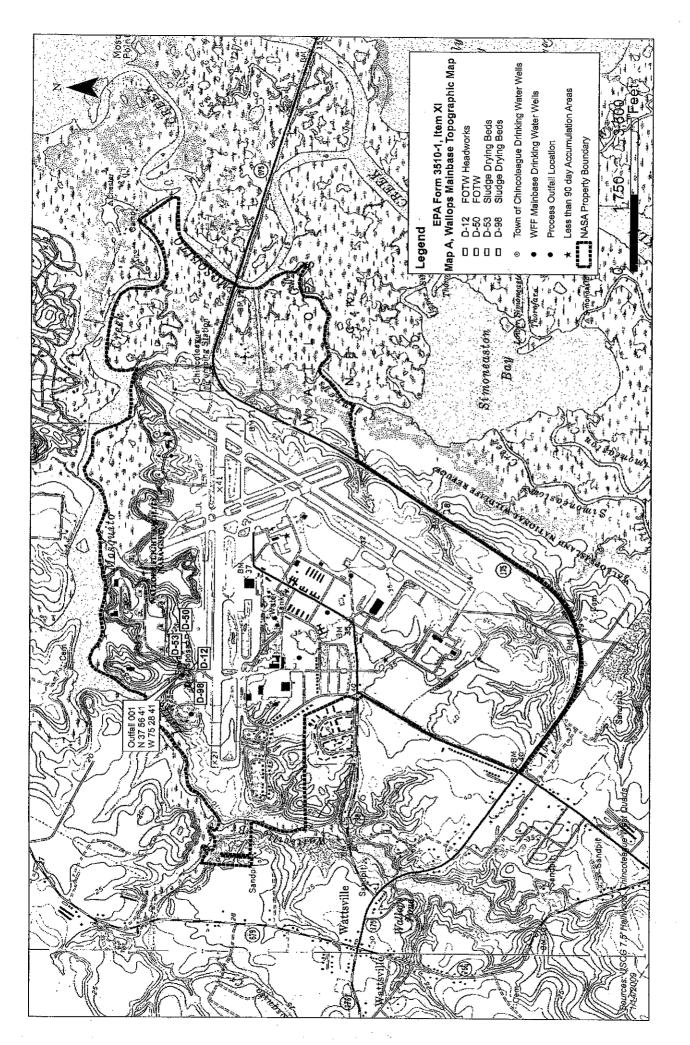
									YES	NO	NA
1.	Type of outfall			Sh	ore Based	x	Submerged				
		TYPE IF SHORE BASED:									
2.	Wingwall		Headwall		Rip Rap		Pipe	х			
3.	Flapper valve pre	sent?								х	
4.	Erosion of bank a	Erosion of bank area?									
5.	Effluent plume vis	sible?								x	
	Condition of outfa	all and t	he supporting st	ructure?							
6.	GOOD		FAIR	х	POOR				4-4-0		
	1	FÍNAL	EFFLUENT, EV	IDENCE	OF FOLLOWII	NG PROB	LEMS?		1910 Y		
	Oil sheen?				`					х	
	Grease?									х	
	Sludge bar?								х		
	Turbid effluent?								х		
	Visible foam?							_	х		
7.	Unusual color? (	Orang	e colored bacte	rial grow	vth is generall	y normal	for this outfall)			х	
				· · · ·							·•
GENI	ERAL CONDITION		GOOD			FÀIR	X	P	OOR		

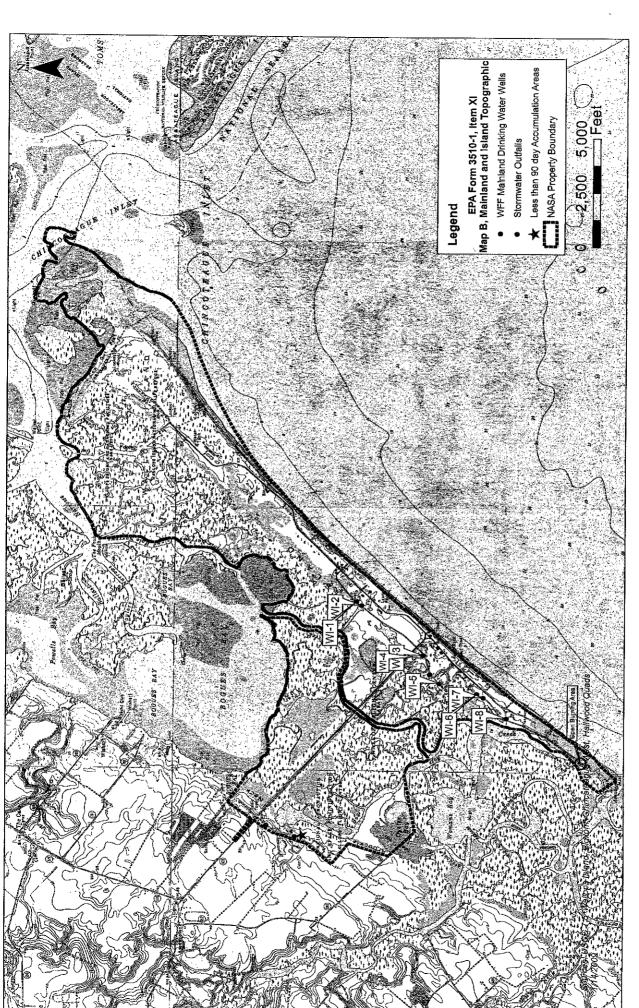
A small clear flow with a trace amount of foam was visible at the outfall area.

## ATTACHMENT 2

DISCHARGE LOCATION/TOPOGRAPHIC MAP







WI-1 = 031 WI-2 = 032 WI-3 = 033

W F-4 = 034 V F - 5 = 035 V F - 6 = 036

039 is a proposed facility
outsell at the horther
prd 08 wallops Island

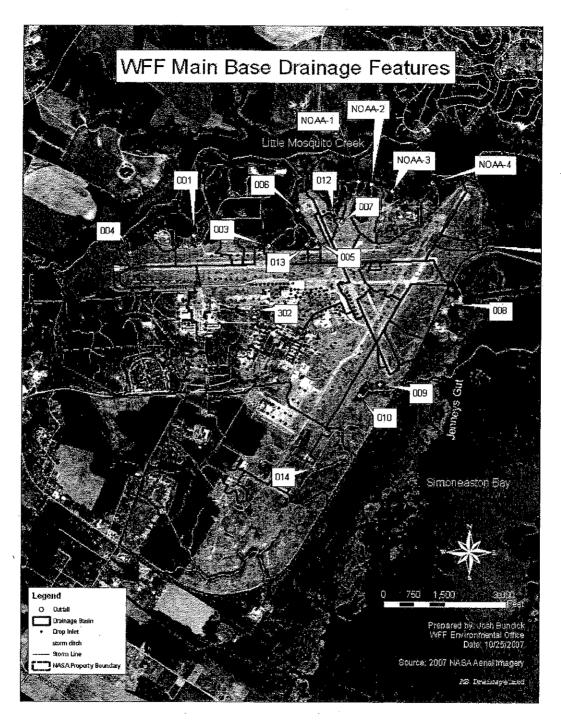


Figure 2

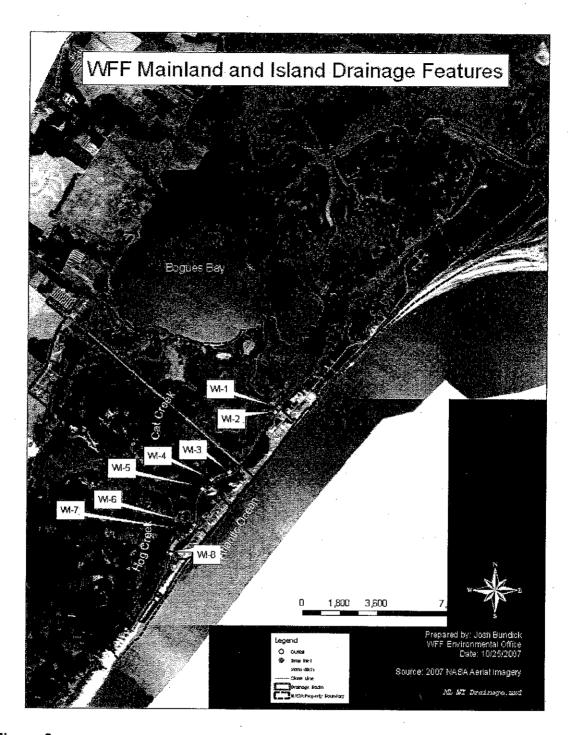
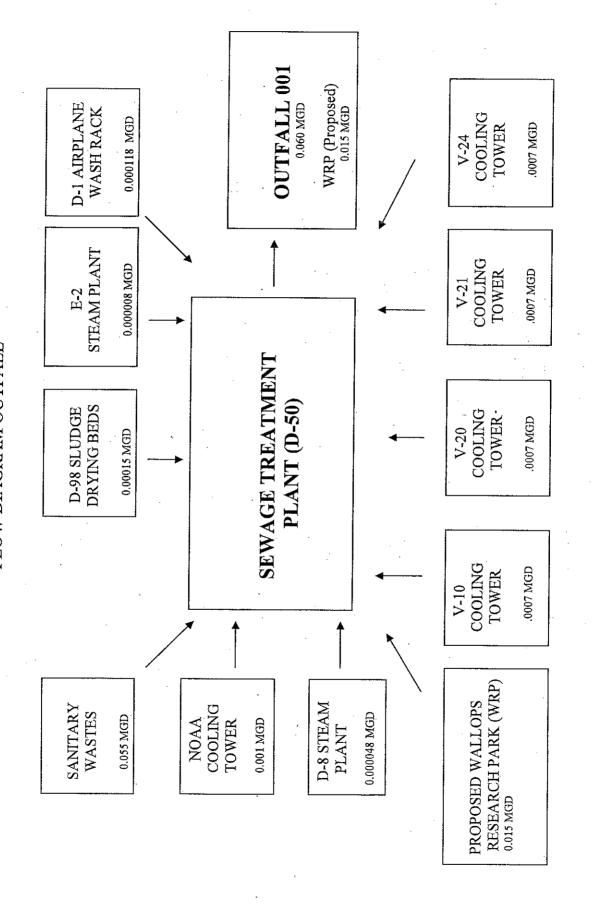


Figure 3

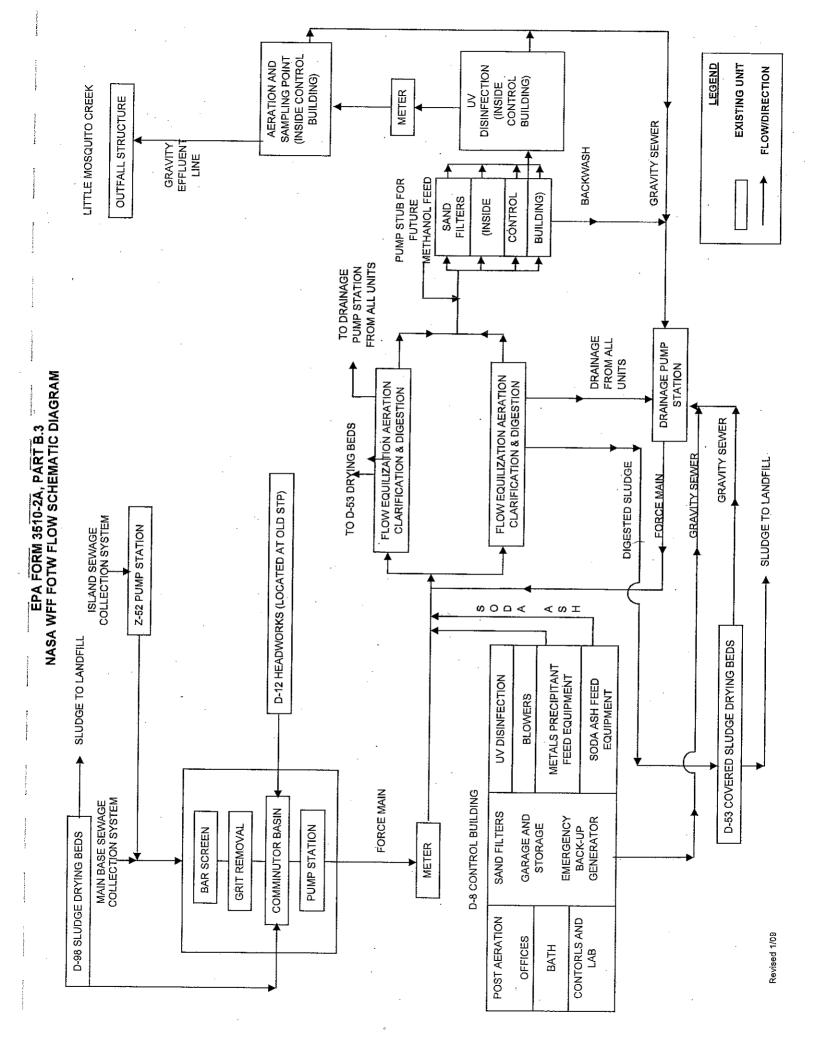
## ATTACHMENT 3

SCHEMATIC/PLANS & SPECS/SITE MAP/ WATER BALANCE

# NASA WALLOPS FLIGHT FACILITY D-50 FOTW WALLOPS ISLAND, VA MAXIMUM FLOW NEXT 5 YEARS FLOW DIAGRAM OUTFALL



MGD = Millions Gallons/Day



## **UNIT PROCESS DESIGN SUMMARY**

BYPASS BAR SCREEN (EXISTING)		SLUDGE HOLDING ZONE	
NUMBER OF UNITS SIZE OPENINGS VOLUME (EACH UNIT)  GRIT CHAMBER (EXISTING)	1 15mm 3028 m³/d	NUMBER OF UNITS MAXIMUM FLOW AVERAGE DAILY SLUDGE PRODUCTION SOLIDS CONCENTRATION	2 3785 m³/d 72.6kg/d/UNIT 2%
NUMBER OF UNITS MAXIMUM FLOW (EACH UNIT)	2 3785 m³/d	AIR REQUIREMENT (EACH UNIT) DECANT AIRLIFT REQUIREMENTS (EACH UNIT)	41 L/S 12 L/S
COMMUNTORS (EXISTING)		<u>FILTRATION</u>	
NUMBER OF UNITS MAXIMUM FLOW (EACH UNIT)	2 946 m³/d	NUMBER OF UNITS FILTER AREA (EACH UNT) LOADING RATE (EACH UNIT) ADF MDF PHF	4 4.65 m <sup>2</sup> 0.0424m <sup>3</sup> /m <sup>2</sup> MIN 0.0848m <sup>3</sup> /m <sup>2</sup> MIN 0.127m <sup>3</sup> /m <sup>2</sup> MIN
INFLUENT PUMPS		ULTRA VIOLET DISINFECTION	•
NUMBER OF PUMPS FLOW RATE OF LOW CAPACITY PUMP (EACH PUMP)	3 48.32 m³/hr.	NUMBER OF MODULES NUMBER OF LAMPS (EACH MODULE)	16 2
FLOW RATE OF HIGH CAPACITY PUMP	57 m <sup>3</sup> /hr – 143.8 m <sup>3</sup> /hr	UV TRANSMISSION 253.7nm	65%
COPPER REMOVAL SYSTEM			
NUMBER OF PUMPS FLOW RATE	2 0-52.0ml/min		
ALKALINITY FEED SYSTEM	÷	POST AERATION	•
NUMBER OF UNITS VOLUME OF SILO SOLUTION CONCENTRATION FIXED RATES (EACH PUMP) - ADF - MDF - PHF	1 14.200m <sup>3</sup> 3% 0.492m <sup>3</sup> /hr 0.984m <sup>3</sup> /hr 1.476m <sup>3</sup> /hr	NUMBER OF UNITS LENGTHS (EACH UNIT) WIDTH (EACH UNIT) LIQUID DEPTH DETENTION TIME (EACH UNIT) - PHF AIR SUPPLY (EACH UNIT) - MDF	2 2.742m 1.219m 1.829m 5 MIN. 11.3 1/s
FLOW EQUALIZATION ZONE	¥	SLUDGE DRYING BEDS	
NUMBER OF UNITS VOLUME (EACH UNIT) PERCENT OF ADF AIR REQUIREMENT (EACH UNIT) AIRLIFT REQUIREMENTS (EACH UNIT)	2 189.3m <sup>3</sup> 33% 48 L/S 17 L/S	NUMBER OF UNITS DRYING AREA (EACH UNIT) CAPACITY TOTAL DAILY DRY SLUDGE PRODUCTION DISPOSAL	4 116.14 m <sup>2</sup> 114 kg/m <sup>2</sup> (yr) 145.3 kg/d LAND FILL
AERATION ZONE		DRAINAGE PUMP STATION	
NUMBER OF UNITS VOLUME (EACH UNIT) LIQUID DEPTH MINIMUM ORGANIC LOADING (EACH UNIT) MAXIMUM ORGANIC LOADING (EACH UNIT) AIR REQUIREMENTS (EACH UNIT)	2 543.7 m <sup>3</sup> 4.573m 0.104kg/m <sup>3</sup> (d) 0.240kg/m <sup>3</sup> (d) 269 L/S	NUMBER OF PUMPS FLOW RATE (EACH PUMP)	2 46.01 m³/hr
CLARIFICATION ZONE			
NUMBER OF UNITS OVERFLOW RATE (EACH UNIT) – PHF SURFACE AREA (EACH UNIT) LIQUID DEPTH DIMENSIONS SLUDGE AIRLIFT REQUIREMENTS (EACH UNIT) SKIMMER AIR REQUIREMENTS (EACH UNIT)	2 36.6m³/m²/d 46.52m² 3.85m 7.696m DIA. ) 15 L/S 3L/S	•	

## ORGANIC LOAD DESIGN SUMMARY

PARAMETER	INFL	EFFLUENT LIMIT	
	MINIMUM	AVERAGE	LIMIT
BOD-5 (mg/l) SUSPENDED	100	230	10
SOLIDS (mg/l)	100	230	10
TOTAL N (mg/l)	20	50	_
TKN (mg/l)	. 20	50	3
D.O. (mg/l)	<b>-</b> , ·		5.5
FECAL COLIFORM (n/cml)	-	-	200
T.R.C. (mg/l)	<b>u</b>	<del>-</del>	NON- DETECTABLE
pН	6.0	6.0-9.0	6.0-9.0
	MIN	MAX	
TEMPERATURE	7.8°C	$20^{0}\mathrm{C}$	

## Addendum to the application Form 2F

IV. NARRATIVE DESCRIPTION OF POLLUTANT SOURCES PART B

1.0 DESCRIPTION OF POLLUTANT SOURCES

VPDES regulations require permits for storm water discharges associated with industrial activities. The WFF currently holds VPDES permit VA0024457 for 12 industrial storm water outfalls on the Main Base, labeled 003-010, 012-014, and 302. Four non-industrial storm water outfalls are located on the Wallops Main Base, labeled NOAA1-NOAA4. The Federally Owned Treatment Works (FOTW) process outfall, labeled 001, is also located on the Main Base; eight non-industrial storm water outfalls are located on Wallops Island, labeled WI01-08 (see Figures 2 and 3). Descriptions of the outfalls are provided in IV Narrative Description of Pollutant Sources Part. On the northern portion of the Main Base, both naturally flowing storm water and the extensive storm network drain to Little Mosquito Creek, which drains to Cockle Creek and eventually flows to the Atlantic Ocean. On the eastern and southeastern portions of the Main Base, the natural drainage pattern flows to Jenneys Gut and Simoneaston Bay, then into Cockle Creek, Shelly Bay, and Chincoteague Bay before draining to the Atlantic Ocean. On the western and southwestern portions of the Main Base, the natural drainage pattern is toward Wattsville Branch, then to Little Mosquito Creek, Cockle Creek, and on to the Atlantic Ocean.

The National Oceanic and Atmospheric Administration (NOAA), one of WFF's partners, operates a satellite tracking station (correlating with Standardized Industrial Classification (SIC) code 4899, Communications Services) on the northeast corner of the Main Base. Four outfalls channel storm water from the NOAA facility. The outfalls are labeled on Figure 2 as NOAA 1-NOAA 4. However, based upon NOAA's SIC code; the facility does not produce discharges associated with industrial activity.

With the exception of several cross-culverts, storm drainage at Wallops Mainland is primarily toward Bogues Bay, Hog Creek, and Cat Creek, all which separate Wallops Mainland from Wallops Island. The Mainland portion of the facility, consisting primarily of radar tracking facilities, does not generate storm water discharge associated with industrial activity as specified within regulatory classifications

The northern portion of Wallops Island drains by overland flow to Bogues Bay and Chincoteague Inlet via Sloop Gut and Ballast Narrows. The central portion of the island drains primarily to the west toward Bogues Bay and the southern end drains primarily by sheet flow to Hog Creek and the Atlantic Ocean. Wallops Island has eight storm water outfalls, labeled WI-1 – WI-8. However, Wallops Island does not generate storm water discharge associated with industrial activity as specified within regulatory classifications.

### ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

TABLE I NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
001	37 56 41 N 75 28 41 W	Municipal WWTP	See Attached	0.3 MGD
See attached for numerous				
stormwater outfalls.				
- 70			-	
.:				
· · · · · · · · · · · · · · · · · · ·			·	·

- List operations contributing to flow Give brief description, unit by unit Design flow for municipal (1)
- (2)
- (3)

## UNIT PROCESS DESIGN SUMMARY - 001

2 3785 m³/d 72.6kg/d/UNIT 2%
41 L/S 12 L/S
4 4.65 m <sup>2</sup> 0.0424m <sup>3</sup> /m <sup>2</sup> MIN 0.0848m <sup>3</sup> /m <sup>2</sup> MIN
0.127m³/m² MIN
16 2
65%
•
2 2.742m 1.219m 1.829m 5 MIN. 11.3 1/s
4 116.14 m <sup>2</sup> 114 kg/m <sup>2</sup> (yr) 145.3 kg/d LAND FILL
2 46.01 m³/hr
2 1 1 5 1 1 1 1 1 1 1 1 2

### NASA WALLOPS FLIGHT FACILTIY VA0024457 STORM WATER OUTALL NUMBERING SCHEME FOR 2009 PERMIT REISSUANCE

Numerous storm water outfalls are referenced in the application for reissuance that have not been included in the previous VPDES permits for this facility. During the 2009 reissuance process, these outfalls are being assigned permitted outfall numbers. The outfall numbering scheme is listed below. Specific outfall descriptions are provided on the following pages, taken from the application for reissuance.

VPDES Outfall Number	Application Outfall Reference
021	NOAA-1
022	NOAA-2
023	NOAA-3
024	NOAA-4
031	WI-1
032	WI-2
033	WI-3
034	WI-4
035	WI-5
036	WI-6
037	WI-7
038	MI-8
039	Proposed Northern Wallops Island Liquid Fueling Facility and Deluge System

IV. Narrative Description of Pollutant Sources Part C

	WFF Storm Water Outfalls
Outfall Number	Description
003	Drains airfield runways, taxiways, aprons, and a hangar; satellite accumulation areas; aboveground fuel storage tanks; office buildings; roadways, parking areas, and grassy areas. This outfall discharges to Little Mosquito Creek. Potential sources of pollution include possible fuel spills from airfield activities or releases from fuel delivery vehicles or possible hazardous waste spills from either a satellite accumulation area. A slight chance of storm water contamination from hazardous wastes exists; however, all satellite accumulation areas are required to have secondary containment and are located inside covered structures. This outfall drains approximately 204.6 acres (82.8 hectares (ha)) and its weighted runoff coefficient is low at 0.39. During a 24-hour, 2-year storm event, approximately 8.03 million gallons per day (MGD) would discharge from this outfall.
004	Drains airfield runways and taxiways, satellite accumulation areas, an enclosed salt storage facility, an automobile fueling facility and a maintenance garage, aboveground fuel storage tanks, roadways, parking areas, office and storage buildings, and grassy areas. This outfall discharges to Little Mosquito Creek. Potential sources of pollution include possible fuel spills from automobile fueling and maintenance, releases from fuel delivery vehicles, or airfield activities. The slight possibility of hazardous waste spills from satellite accumulation areas also exists; however, all satellite accumulation areas are required to have secondary containment and are located inside covered structures. This outfall drains approximately 54.1 acres (21.9 ha) and its weighted runoff coefficient is low at 0.31. During a 24-hour, 2-year storm event, approximately 1.72 MGD would discharge from this outfall.
005, 006, 007, 008	Drain airfield runways, taxiways, and grassy areas. These outfalls discharge to Little Mosquito Creek. Potential sources of pollution include possible fuel spills from airfield activities. These outfalls drain approximately 18.9 acres (7.6 ha), 2.3 acres (0.93 ha), 12.4 acres (5.0 ha) and 29.0 acres (11.7 ha), respectively. Weighted runoff coefficients range from medium to high and are 0.52, 0.67, 0.40, and 0.46, respectively. During a 24-hour, 2-year storm event, discharges would be approximately 1.00 MGD from outfall 005, 0.16 MGD from outfall 006, 0.51 MGD from outfall 007, and 1.36 MGD from outfall 008.
009	Drains airfield runways, taxiways, and grassy areas. This outfall discharges to Jenneys Gut. Potential sources of pollution include possible fuel spills from airfield activities. This outfall drains approximately 18.2 acres (7.4 ha) and its weighted runoff coefficient is medium at 0.46. During a 24-hour, 2-year storm event, approximately 0.85 MGD would discharge from this outfall.

	WFF Storm Water Outfalls
Outfall Number	Description
010	Drains airfield runways, taxiways, and aprons, satellite accumulation areas, a less-than-90-day accumulation area (Building B-29), one restoration sites with petroleum related groundwater impacts), and aboveground fuel storage tanks; office buildings, roadways, parking areas, and grassy areas. This outfall discharges to Jenneys Gut. Potential sources of pollution include possible fuel spills from airfield activities or releases from fuel delivery vehicles or possible hazardous waste spills from either a satellite accumulation area or the less-than-90-day accumulation area. The slight possibility of storm water contamination from hazardous wastes exists; however, all satellite accumulation areas are required to have secondary containment and are located inside covered structures. In addition, the less-than-90-day accumulation area is located in a concrete building that is protected by drains and troughs that would contain a spill within the area. The potential for contaminated runoff from the restoration sites exist, but due to site topographies, is highly unlikely. This outfall drains approximately 127.7 acres (51.7 ha) and its weighted runoff coefficient is low at 0.34. During a 24-hour, 2-year storm event, approximately 4.43 MGD would discharge from this outfall.
012, 013	Drain airfield runways and taxiways and grassy areas. These outfalls discharge to Little Mosquito Creek. Potential sources of pollution include possible fuel spills from airfield activities. These outfalls drain approximately 3.2 acres (1.3 ha) and 2.6 acres (1.1 ha), respectively. Their weighted runoff coefficients are medium at 0.54 and 0.52, respectively. During a 24-hour, 2-year storm event, approximately 0.17 MGD would discharge from outfall 012 and 0.14 MGD from outfall 013.
014	Drains airfield runways, taxiways, and a hangar; satellite accumulation areas and an aboveground fuel storage tank; roadways and parking areas; office and storage buildings; and grassy areas. This outfall discharges to Simoneaston Bay. Potential sources of pollution include possible fuel spills from runway activities or releases from fuel delivery vehicles or possible hazardous waste spills from satellite accumulation areas. However, all satellite accumulation areas are required to have secondary containment and are located inside covered structures. This outfall drains approximately 113.1 acres (45.8 ha) with a low weighted runoff coefficient of 0.28. During a 24-hour, 2-year storm event, approximately 3.32 MGD would discharge from this outfall.
302 (mid outfall)	Intermediate Outfall 302 is an oil/water separator located at the aviation fuel tank farm. Water exiting outfall 302 travels a short distance through a ditch, enters the storm water system, and discharges through outfall 003 to Little Mosquito Creek. Potential pollution sources include fuel spills or leaks from the aviation fuel tank farm. However, the oil/water separator will capture any petroleum products released. This outfall drains approximately 0.1 acres (0.04 ha) with a high weighted runoff coefficient of 0.90. During a 24-hour, 2-year storm event, approximately 0.01 MGD would discharge from this outfall.
NOAA-1, NOAA-2	Drain spacecraft tracking facilities and grassy areas. These outfalls discharge to Little Mosquito Creek. Potential pollution sources include oils and lubricants; however the equipment is regularly inspected and maintained by trained NOAA personnel. These outfalls drain approximately 6.6 acres (2.7 hectares) and 16.2 acres (6.6 hectares), respectively. Weighted runoff coefficients are low at 0.22 and 0.25. During a 24-hour, 2-year storm event, approximately 0.15 MGD would

		WFF Storm Water Outfalls
	Outfall Number	Description
~ ~		discharge from NOAA-1 and 0.41 MGD would discharge from NOAA-2.
073 074	NOAA-4	Drain spacecraft tracking facilities, aboveground fuel storage tanks, office buildings, parking areas, and grassy areas. NOAA-4 also drains an airfield runway and taxiway. These outfalls discharge to Little Mosquito Creek. Potential sources of pollution include possible fuel spills from airfield activities or releases from fuel
		delivery vehicles and radar oils and lubricants. To minimize storm water risk, tanks are surrounded by secondary containment and spill kits are readily available; Radar equipment is regularly inspected and maintained by trained NOAA personnel. These outfalls drain approximately 28.3 acres (11.5 hectares) and 51.0 acres (20.6 hectares), respectively. Weighted runoff coefficients are low to moderate at 0.29 and 0.42. During a 24-hour, 2-year storm event, approximately 0.82 MGD would discharge from NOAA-3 and 2.15 MGD would discharge from NOAA-4.
U 34	<del>'₩1=1,</del>	Drain small launch facilities, office buildings, fuel storage tanks, roadways, parking
0 32	<del>-W1-2-</del>	areas, and grassy areas. WI-2 also drains a payload assembly building (W-065) that contains a satellite accumulation area near a large door and a building (W-116) with drums that lack secondary containment. Drainage involves retention basins with sluice gates and tidal flaps leading first to tidal marshland and then to Cat Creek. Potential sources of pollution include fuel spills during deliveries or releases from the payload assembly building or drum storage area. To minimize the risk of storm water pollution, all fueling and payload assembly operations are performed by trained personnel. Additionally, spill kits are readily available. These outfalls drain approximately 36.9 acres (14.9 hectares) and 74.3 acres (30.1 ha), respectively. Weighted runoff coefficients are low at 0.22 and 0.20. During a 24-hour, 2-year storm event, approximately 0.93 MGD would discharge from WI-1 and 1.49 MGD would discharge from WI-2.
		Payload Fueling (Wallops Island)  • V-55 – No new discharge to surface or ground water  • Potential new facility – storm water, but no new discharge to surface or ground water  New Spacecraft Integration Facility (HIF) (South end of island) – storm water, but no new discharge to surface or ground water
033 e34	₩I-4	Drain office buildings, fuel storage tanks, roadways, and parking areas. Drainage involves retention basins with sluice gates and tidal flaps leading first to tidal marshland and then to Cat Creek. Potential sources of pollution include fuel spills from delivery vehicles. To minimize the risk of storm water pollution, all fueling operations are performed by trained personnel. Additionally, spill kits are readily available. These outfalls drain approximately 45.0 acres (18.2 hectares). Their weighted runoff coefficient is low at 0.19. During a 24-hour, 2-year storm event, approximately 0.86 MGD would discharge from these outfalls.

		WFF Storm Water Outfalls
	Outfall Number	Description
035	<del>WI-5</del>	Drains radar and tracking facilities, aboveground fuel storage tanks, office buildings, parking areas, and grassy areas. Drainage involves a culvert with tidal flaps leading first to tidal marshland and then to Cat Creek. Potential sources of pollution include fuel spills from delivery vehicles and radar oils and lubricants. To minimize storm water risks, tanks are surrounded by secondary containment and spill kits are readily available; radar equipment is regularly inspected and maintained by trained personnel. This outfall drains approximately 7.7 acres (3.1 ha). The weighted runoff coefficient is low at 0.19. During a 24-hour, 2-year storm event, approximately 0.15 MGD would discharge from this outfall.
v 36	<del>WI-6</del>	Drains small launch facilities, office buildings, fuel storage tanks, roadways, parking areas, and grassy areas. Drainage involves retention basins with sluice gates and tidal flaps that drain to Hog Creek. Potential sources of pollution include fuel spills from delivery vehicles. To minimize the risk of storm water pollution, all fueling operations are performed by trained personnel. Additionally, spill kits are readily available. This outfall drains approximately 47.8 acres (19.3 hectares). The weighted runoff coefficients is low at 0.23. During a 24-hour, 2-year storm event, approximately 1.1 MGD would discharge from this outfall.
037 038	<del>VVI-7,</del> ₩I-8	Drain orbital launch facilities, small launch facilities, office buildings, fuel storage tanks, roadways, parking areas, and grassy areas. Drainage involves retention basins with sluice gates and tidal flaps that drain to Hog Creek. Potential sources of pollution include orbital launch operations and fuel spills from delivery vehicles. To minimize the risk of storm water pollution, all orbital launch vehicle fueling is performed by highly trained personnel during closely controlled conditions. Also, all launch pad wash waters are tested prior to discharge. All tank fueling operations are performed by trained personnel. Additionally, spill kits are readily available. These outfalls drain approximately 27.9 acres (11.3 hectares) and 22.5 acres (9.1 ha), respectively. Weighted runoff coefficients are low at 0.23 and 0.17. During a 24-hour, 2-year storm event, approximately 0.64 MGD would discharge from WI-7 and 0.38 MGD would discharge from WI-8.  Proposed Liquid Fueling Facility – storm water (110% containment for hydrocarbon fuels)
Principles of the second secon		Proposed Deluge System – Discharge to containment basin, test for release to surface water structures. Release to surface water structures is anticipated based on similar operations at other NASA launch sites. If necessary water will be tested and treated (pH adjustment) before release, or collected and removed for disposal as necessary. The volume of water required for deluge is still being evaluated. The quantities may be significant requiring release over of period of days.
	Northern Wallops Island	Proposed Liquid Fueling Facility with a Deluge System – Storm water impacts are unknown at this time. Further research will be conducted and results submitted to VDEQ.

### ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

# TABLE II - MUNICIPAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 001 Outfall Description: SIC CODE:

0.3 MGD DESIGN FLOW: 0
Municipal WWTP

To: Expiration (X) Final Limits ( ) Interim Limits Effective Dates - From: Issuance

(A) Final Limits ( ) interim Limits	m Limits	Ellective Dates		From: Issuance	: O.T.	: Expiration	non	
PARAMETER & UNITS	BASIS	DESIGN		BFFLUENT LIMITATIONS	MITATIONS		MONITORING REQUIREMENTS	RING
	FOR LIMITS	FLOW MULTIPLIE R	MONTHLY	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	rH		NL	NA	ŊĄ	NL	Continuous	TI & RE*
рн (s.u.)	러		NA	NA	6.0	0.6	1/Day	Grab
CBOD5 (mg/l) [a]	m		10	15	NA	NA	3D/Week	24-Hr.
CBODS (kg/d)	т		H	17	NA	NA	3D/Week	24-Hr. comp
TSS (mg/l) [a]	m		10	15	NA	NA	3D/Week	24-Hr. Comp
ISS (kg/d)	m		1.1	. 17	MA	NA	3D/Week	24-Hr.
D.O. (mg/1)	7		NA	NA	5	NA	1/Day	Grab

PARAMETER & UNIES	BASIS FOR	DESIGN FLOW		EFFLUENT LIMITATIONS	MITATIONS		MONITORING REQUIREMENTS	ING
		1 1 1 1 1 1 1 1 1	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Fecal Coliform (N/CML)	N		200	NA	NA	NA	3D/Week (Between 10 am & 4 pm)	Grab
E. coli (N/CML)	0		126	NA	NA	NA	3D/Week (Between 10 am & 4 pm)	Grab
Total Kjeldahl Nitrogen (TKN) (mg/l)	m		3.0	4.5	NA	NA	3D/Week	24-Hr. comp
Total Kjeldahl Nitrogen (TKN) (kg/d)	м		3.4	5.1	NA	NA	3D/Week	24-Hr.
Total Copper (ug/1) [a]	7		19	19	NA	NA	1/Month	24-Hr. comp
				-				

<sup>\*</sup>Totalizing, Indicating & Recording Equipment

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

The basis for the limitations codes are:

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

<sup>[</sup>a] See Part I.B.8. for reporting requirements.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

## TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

Outfall Description: 003 OUTFALL #

SIC CODE:

Storm water from the airfield, aviation fuel tank area, buildings, roadways, parking areas and grassy areas

PARAMETER & UNITS	STORM	DISCH LIMITA	DISCHARGE LIMITATIONS	MONITORING	MONITORING REQUIREMENTS [a]
	CATEGORY 1-29 or BPJ	MINIMOM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MG)	ВРЈ	NA	NL	1/3 Months	Estimate [b]
pH (s.U.)	BPJ	6.0	9.0	1/3 Months	Grab
TSS (mg/l) [c]	ВРЈ	NA	NE	1/3 Months	Grab
TPH (mg/l) [c]	ВРЈ	NA	NL	1/3 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 -September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

See Part T.C. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements. Estimate of the total volume of the discharge during the storm event. See Parts I.E.L. and I.L. for quantification levels and reporting requirements, respectively. ပြု ပြု

The basis for the limitations codes are:
A. Technology (e.g., Federal Effluent Guidelines)
B. Water Quality Standards (9 VAC 25-260 et. seq.)
C. Best Professional Judgment

## TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 004-010, 012, 013, 014, 302

grassy areas; 302: internal outfall from oil/water separator from fuel tank farm discharging to outfall 003 004-010, 012, 013, 014: main base airfield, runways and taxiways, Storm water from: Outfall Description:

QUARTERLY VISUAL THESE OUTEALLS SHALL CONTAIN STORM WATER RUNOFF ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO CHEMICAL MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE GUTFALLS. INSPECTIONS IN ACCORDANCE WITH PART I.C. OF THIS PERMIT SHALL BE CONDUCTED AT THESE OUTFALLS

## TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 021-024, 031-036

Island launch facilities, office areas, fuel storage areas, roadways, parking areas and grassy areas; 035 021-024: NOAA Spacecraft Tracking Facilities; 031-036: Wallops also drains radar and tracking facilities Outfall Description: Storm water from:

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. IS REQUIRED.

### TABLE II - EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 037, 038, 039

office areas, proposed liquid fueling facility, launch pad wash waters, deluge system; 039: Storm Storm water from Wallops Island orbital launch facilities, fuel storage water from Northern Wallops Island liquid fueling facility, deluge system Outfall Description: 037, 038: areas,

Estimate SAMPLE TYPE Grab Grab Grab <u>[</u>q] RECUIREMENTS MONITORING FREQUENCY Months Months Months Months 1/6 1/6 1/6 1/6 To: Expiration MAXIMUM 0.0 K NL Z EFFLUENT LIMITATIONS MINIMUM 6.0 NA NA NA Effective Dates - From: Issuance AVERAGE WEEKLY AVERAGE MONTHLY MULTIPLIE DESIGN FLOW 吖 ( ) Interim Limits LIMITS BASIS FOR BPJ BPJ BPJBPJ (X) Final Limits PARAMETER & UNITS TSS (mg/l) [c] TPH (mg/l) [c] pH (S.U.) Flow (MG)

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 1/3 Months = In accordance with the following schedule: September 30); 4th quarter (October 1 - December 31). No monitoring shall be required for these outfalls until commencement of a discharge. Upon commencement of a discharge, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.

  [b] Estimate of the total volume of the discharge during the storm event.

  [c] See Parts I.B.T. and I.B.T. and I.B.S. for quantification levels and reporting requirements, respectively.

The basis for the limitations codes are:

- A. Technology (e.g., Federal Effluent Guidelines) B. Water Quality Standards (9 VAC 25-260 et. seq.) C. Best Professional Judgment

### ATTACHMENT 6

EFFLUENT LIMITATIONS/MONITORING
RATIONALE/SUITABLE DATA/
ANTIDEGRADATION/ANTIBACKSLIDING

### NASA Wallops Island VA0024457 Effluent Limitations/Monitoring Rationale

### Outfall 001

This outfall discharges wastewater from the municipal wastewater treatment plant with a design flow 0.3 MGD. The plant receives domestic wastewater from the NASA Wallops Flight Facility Main Base and from Effluent limitations are based generally on best Wallops Island. professional judgment (BPJ) and water quality standards (WQS) using the federal effluent guidelines, VPDES permit manual and the State Water Ouality Criteria as references and quidance. The receiving stream is classified as Tier 1 due to a low flow 7Q10 of zero or near zero; the receiving stream of Little Mosquito Creek is also referenced in the Eastern Shore Wasteload Allocations of the Eastern Shore Management Plan. NASA Wallops Island discharge has specified BOD and TSS Wasteload Allocations of 75 lb/d. The facility also has a TMDL for Fecal Coliform based on shellfish growing area of 5.15E+08. This TMDL was approved by EPA in January 2008. Effluent limits have been developed to comply with both the Management Plan and the TMDL.

Specific effluent limitations and associated rationales follow.

- Flow Monthly Average reporting using continuous recording monitoring of flow, based on BPJ and typical for a municipal wastewater discharge. The design flow of this facility is 0.3 MGD. A corrective action plan is required if the flow reaches 95% of the design flow for three consecutive months. The facility rarely comes close to a monthly average flow approaching the design flow.
- pH Limits of 6.0 S.U. Minimum and 9.0 S.U. Maximum at 1/month
   monitoring frequency by grab sample, based on BPJ to protect water
   quality at the point of discharge.
- BOD<sub>5</sub>, TSS (Swamp and Marsh Limits), 10 mg/l Monthly Average; 15 mg/l Weekly Average with 3 day per week monitoring by 24-hour composite sampling. This is based on BPJ, and are typical limits for these parameters in permits that the DEQ issues for the Eastern Shore. These limits are found to be representative of "self-sustaining" effluent, i.e., the effluent will not normally violate the stream standards even if the stream consists of 100% effluent. Note:

  Eastern Shore Wasteload Allocation for this facility is 75 lbs/day BOD5 and TSS. Current limit for BOD5 and TSS provides for a max loading of 38 lb/day, well in compliance with the specified wasteload allocation in the Management Plan.
- D.O. Effluent limitation of 5.5 mg/l Minimum, at 1/Day frequency by grab sample, based on BPJ. This limit is more stringent than that required by the Swamp and Marsh Limits guidance (3 mg/l); this is to protect the small receiving stream, comply with antidegradation requirements and protect downstream shellfish resources. A review of the data during the last five years indicates that the permittee consistently produces effluent with a D.O. concentration above 7 mg/l and can consistently meet the minimum limit of 5.5 mg/l.

- Fecal Coliform Effluent limitation of 200 n/cml, monitored 3D/week by grab sample, based on Water Quality Standards 9 VAC 25-260-160 for discharges into Shellfish waters. The receiving stream is considered shellfish growing waters downstream of the discharge. The Health Department has previously stated that effluent limits of 200 n/cml will comply with the instream standard. Further, this receiving stream has a TMDL for fecal coliform for the protection of shellfish and this permitted facility has been assigned a wasteload allocation for fecal coliform of 5.15E+08. The effluent limitation of 200 n/cml will comply with this wasteload allocation.
- E. Coli Effluent limitation of 126 N/CML Monthly Average, monitored 3D/week by grab sample: This limit is based on water quality standards 9 VAC 25-260-170 and included in the permit in accordance with DEQ Guidance Memo No. 03-2007 which implements Water Quality Standards for bacteriological parameters. Bacteriological effluent limitations are included in the permit to ensure proper disinfection from the treatment system which uses ultraviolet methods for disinfection instead of chlorination.
- TKN Effluent limits of 3.0 mg/l Monthly Average, 4.5 mg/l Weekly Average, monitored 3D/week by 24-hour composite samples based on BPJ. These limits are typically included in permits for municipal dischargers on the Eastern Shore and are representative of "self-sustaining" effluent, i.e., the effluent will not normally violate the stream standards even if the stream consists of 100% effluent. Additionally, this limit is stringent enough to protect any receiving waters from ammonia toxicity, hence an NH<sub>3</sub>-N limit unnecessary.
- Total Recoverable Copper Effluent limitation of 19  $\mu$ g/l Monthly Average/Weekly Average, monitored 1/month by 24-hour composite sample. This limit is based on Water Quality Standards and is the result of mathematical modeling of the sampling data that was provided by the permittee during a previous permit cycle. This limit was accompanied by a 4-year schedule of compliance during the previous permit term. The schedule of compliance has passed and the limit is now effective.

```
Facility = US Nasa Wallops Flight Facility
Chemical = Copper
Chronic averaging period = 4
WLAa = 20
WLAc = 13
Q.L. = .1
# samples/mo. = 1
# samples/wk. = 1
```

### Summary of Statistics:

```
# observations = 18
Expected Value = 47.3988
Variance = 636.830
C.V. = 0.532407
97th percentile daily values = 107.070
97th percentile 4 day average = 74.9295
97th percentile 30 day average = 56.0652
# < Q.L. = 0
Model used = lognormal
```

A limit is needed based on Chronic Toxicity
Maximum Daily Limit = 18.5763277170115
Average Weekly limit = 18.5763277170115
Average Monthly Llmit = 18.5763277170115

### The data are:

### Outfall 003

This outfall discharges storm water from the airfield, aviation fuel tank farm, buildings, roadways and parking areas. Parts of the drainage area are associated with industrial activity. The outfall also drains internal outfall 302, which is the aviation fuel tank farm. General sampling requirements are based on BPJ to protect water quality and to ensure proper implementation of best management practices (BMP's). All monitoring is once per 3 months by grab sample. Only pH will be limited. Outfall 302 discharge is treated by an oil/water separator before discharging to Little Mosquito Creek through Outfall 003. Any discharge of petroleum products from Outfall 302 (Aviation fuel tank farm) will be monitored at outfall 003. Effluent treatment of Outfall 003 is an oil/water separator. No internal outfall monitoring at outfall 302 is required. Specific monitoring requirements for outfall 003 follow.

- **Flow** NL MG Maximum. Estimated to determine contribution of stormwater to receiving streams.
- pH 6.0 S.U. Minimum/9.0 S.U. Maximum: Protective of the receiving streams during storm events.
- **TSS** NL Maximum: Sampled to determine solids that are discharged to the receiving streams.
- TPH NL Maximum: Sampled to determine if petroleum is being flushed to the receiving stream.

### Outfalls 004, 005, 006, 007, 008, 009, 010, 012, 013, 014, 302

These outfalls discharge stormwater runoff associated with regulated industrial activity from the main base airfield runways and taxiways. Since all storage of materials is under cover, no chemical monitoring is There shall be no discharge of process wastewater from these required. outfalls. Outfalls 004 and 010 contain stormwater runoff associated with a regulated industrial activity very similar to Outfall 003. However, it was determined that the potential for contamination by the activities draining to these outfalls is very low and Outfall 003 is descriptive of these outfalls. Therefore, no chemical monitoring is required for these outfalls. For all the listed outfalls, quarterly visual monitoring in accordance with Part I.C. for this permit is appropriate and required to periodically determine if there is a visual impact to the receiving stream from the storm water. These simple visual inspections serve to judge the effectiveness of base-wide BMP's and storage practices and could determine if there is a potential impact to the receiving stream and if additional monitoring is necessary in the future.

### Outfalls 021, 022, 023, 024 And Outfalls 031, 032, 033, 034, 035, 036 And Outfalls 037, 038, 039

Numerous storm water outfalls are referenced in the application for reissuance that have not been included in the previous VPDES permits for this facility. During the 2009 reissuance process, these outfalls are being assigned permitted outfall numbers. The outfall numbering scheme is listed below. Specific outfall descriptions are provided on the following pages, taken from the application for reissuance.

VPDES Outfall Number	Application Outfall Reference
021	NOAA-1
022	NOAA~2
023	NOAA-3
024	NOAA-4
031	WI-1
032	WI-1 WI-2
033	WI-2 WI-3
034	
035	WI-4
036	WI-5
037	WI-6
037	WI-7
036	WI-8
039	Proposed Northern Wallops Island Liquid Fueling Facility and Deluge System

### Outfalls 021, 022, 023, 024

These outfalls discharge stormwater runoff not associated with regulated industrial activity from the NOAA Spacecraft Tracking facilities. NOAA operates a satellite tracking station on the northeast corner of the base; no industrial activities occur in the drainage areas to the these outfalls. No chemical or visual monitoring is required for these outfalls.

### Outfalls 031, 032, 033, 034, 035, 036

These outfalls discharge stormwater runoff not associated with regulated industrial activity from the Wallops Island launch facilities and associated office areas, fuel storage areas, roadways, parking areas, and grassy areas; outfall 035 also drains radar and tracking facility areas. No chemical or visual monitoring is required for these outfalls.

### Outfalls 037, .038, 039

These outfalls drain storm water from Wallops Island orbital launch facilities, fuel storage areas, office areas and a proposed liquid fueling facility. They also contain non storm water discharges from launch pad wash waters and the deluge system. Outfall 039 will contain storm water from the proposed Northern Wallops Island liquid fueling facility and deluge system. Because the outfalls contain storm water and non-storm water discharges, chemical monitoring is appropriate for these outfalls. All monitoring is based on BPJ at a 1/6 month frequency by grab sample, and is similar to outfall 003. Monitoring at these outfalls shall commence upon commencement of a discharge. Specific monitoring requirements follow.

- Flow NL MG Maximum. Estimated to determine contribution of stormwater to receiving streams.
- pH 6.0 S.U. Minimum/9.0 S.U. Maximum: Protective of the receiving streams during storm events.
- TSS NL Maximum: Sampled to determine solids that are discharged to the receiving streams.
- TPH NL Maximum: Sampled to determine if petroleum is being flushed to the receiving stream.

The SWPPP required by Part I.C. of this permit is designed to reduce pollutants in storm water runoff. The goal of the SWPPP is to reduce pollutants, to the maximum extent practicable. An annual report is to be submitted to the Regional office and shall include the data collected the previous year with an indication if the SWPPP or any BMPs were modified based on the monitoring results.

Permit No	Facility Name	e Received Date	off	gameter Descrip	p OTYAVG	QTYMAX	NIMONOO	CONCAVG	G CONCMAX
VA0024457	US NASA -	V11-Jan-2005	001	FLOW	0.045	0.128			
VA0024457	US NASA -	۷ 10-Feb-2005	001	FLOW	0.046	0.108			
VA0024457	US NASA -	US NASA - 109-Mar-2005	8 10	FLOW	0.044	0.084			
VA0024457	US NASA -	US NASA - V11-Apr-2005	901	FLOW	0,050	0.103	***************************************		***************************************
VA0024457	US NASA -	US NASA - V10-May-2005	901	FLOW	0,056	0.115			
VA0024457	US NASA -	US NASA - 110-Jun-2005	8	FLOW	0,054	0.114	MANAGEMENT PROPERTY AND A STATE OF THE STATE	-	***************************************
VA0024457	US NASA -	US NASA - 1/08-Jul-2005	001	FLOW	0.068	0.126			
VA0024457	US NASA -	US NASA - 105-Aug-2005	80	FLOW	.058	780.			
VA0024457	US NASA -	US NASA - V12-Sep-2005	001	FLOW	0.063	0.108	***************************************		
VA0024457	US NASA -	US NASA - V11-Oct-2005	001	FLOW	0.051	0.063			
VA0024457	US NASA -	US NASA - V10-Nov-2005	8	FLOW	0.057	0,160		W. Collinson College	
VA0024457	US NASA -	US NASA - V09-Dec-2005	8	FLOW	0.046	0.107			
VA0024457	US NASA -	US NASA - V11-Jan-2006	8	FLOW	0.054	0.148	WHAT THE PROPERTY OF THE PROPE	WWW.Withernamediguess.	
VA0024457	US NASA -	US NASA - V10-Feb-2006	8	FLOW	0.042	0.065	***************************************	***************************************	
VA0024457	US NASA -	US NASA - 109-Mar-2006	8	FLOW	0.038	0.058			
VA0024457	US NASA -	US NASA - V10-Apr-2006	8	FLOW	0.038	0,051	***************************************	***************************************	
VA0024457	US NASA -	US NASA - V10-May-2006	8	FLOW	0.044	0.061	The second secon		
VA0024457	US NASA -	US NASA - V12-Jun-2006	001	FLOW	0.050	0.078		THE THE PERSON NAMED IN THE PERSON	
VA0024457	US NASA -	US NASA - V11-Jul-2006	100	FLOW	690'0	0.159	***************************************		
VA0024457	US NASA -	US NASA - 107-Aug-2006	00	FLOW	0.065	0.117			
VA0024457	US NASA -	US NASA - V07-Sep-2006	001	FLOW	0.054	0.115			
VA0024457	US NASA -	US NASA - 1/05-Oct-2006	001	FLOW	0.064	0.202		**************************************	
VA0024457	US NASA -	US NASA - \08-Nov-2006	001	FLOW	0.062	0.162	TANAL DESCRIPTION OF THE PROPERTY OF THE PROPE	Variation of the Control of the Cont	
VA0024457	US NASA -	US NASA - V07-Dec-2006	901	FLOW	0.061	0.208			
VA0024457	US NASA -	US NASA - 109-Jan-2007	001	FLOW	0.046	0.106			
VA0024457	US NASA -	US NASA - V07-Feb-2007	80	FLOW	0.040	0,072	***************************************		
VA0024457	US NASA -	US NASA - 1/06-Mar-2007	8	FLOW	0.041	0.074		***************************************	
VA0024457	US NASA -	US NASA - \09-Apr-2007	001	FLOW	0.042	0.100			
VA0024457	US NASA -	US NASA - 1/09-May-2007	001	FLOW	0.045	0.14	***************************************	***************************************	
VA0024457	US NASA -	V07-Jun-2007	8	FLOW	0.042	0,060			
VA0024457	US NASA - )	US NASA - 1/09-Jul-2007	8	FLOW	0.050	0.082			
VA0024457	US NASA -	US NASA - 1/09-Aug-2007	8	FLOW	0.054	0.168			
VA0024457	US NASA -	US NASA - 1/06-Sep-2007	100	FLOW	0.054	0,15	The same of the sa		
VA0024457	US NASA - )	US NASA - 109-0ct-2007	8	FLOW	0.048	0.080	***************************************		
VA0024457	US NASA - 1	US NASA - NO7-Nov-2007	<u>8</u>	E OW	0.049	0 104			

Microstaffy   US NASA - Viga-Amazoos   OOI   FLOW   O.042   O.086	V054400V	US NASA -	15A - 106-Dec-2007	001	FLOW	0.038	0.061			
US NASA - VOT-Rep-2008   OOI   FLOW   OO42   O.066	VA0024457	US NASA -	V08-Jan-2008	001	FLOW	0.037	0.094			
US NASA - Vide-Mar-2008   OOI   FLOW   O.049   O.066	VA0024457	US NASA -	V07-Feb-2008	901	FLOW	0,042	980'0			
US NASA - VOS-Apr-2008   OOI   FLOW   O.045   O.068     US NASA - VOS-Apr-2008   OOI   FLOW   O.045   O.068     US NASA - VOS-Apr-2008   OOI   FLOW   O.071   O.130     US NASA - VOS-Apr-2008   OOI   FLOW   O.071   O.130     US NASA - VOS-Apr-2008   OOI   FLOW   O.074   O.056     US NASA - VOS-Apr-2008   OOI   FLOW   O.074   O.075     US NASA - VOS-Apr-2008   OOI   FLOW   O.075   O.075     US NASA - VOS-Apr-2008   OOI   FLOW   O.075   O.075     US NASA - VOS-Apr-2009   OOI   FLOW   O.056   O.070     US NASA - VOS-Apr-2009   OOI   FLOW   O.056   O.010     US NASA - VOS-Apr-2009   OOI   P.H   O.056     US NASA - VOS-Apr-2009   OOI   P.H   O.056     US NASA - VOS-Apr-2009   OOI   P.H   O.057   O.057     US	VA0024457	US NASA -	√06-Mar-2008	901	FLOW	0.049	0.106		With the state of	
US NASA - VOB-May-2008   OOI   FLOW   OO45   O.068     US NASA - VOB-May-2008   OOI   FLOW   O.057   O.139     US NASA - VOB-Jan-2008   OOI   FLOW   O.056   O.111     US NASA - VOB-Sep-2008   OOI   FLOW   O.056   O.014     US NASA - VOB-Sep-2008   OOI   FLOW   O.056   O.004     US NASA - VOB-Cet-2008   OOI   FLOW   O.056   O.007     US NASA - VOB-Aer-2008   OOI   FLOW   O.056   O.007     US NASA - VOB-Aer-2009   OOI   FLOW   O.056   O.007     US NASA - VOB-Aer-2005   OOI   PH   O.007     US NASA - VOB-Aer-2006   OOI   PH   O.007     US NASA -	VA0024457	US NASA -	V 09-Apr-2008	001	FLOW	0.043	0.086			
US NASA - \( \text{VOP-Jun-2008} \)   \( \text{VOID} \)   \( \te	VA0024457	US NASA -	V 08-May-2008	001	FLOW	0.045	0.068			***************************************
US NASA - VIO-Ju-2008   OIJ   FLOW   O.071   O.150	VA0024457	US NASA -	V 09-Jun-2008	001	FLOW	0.057	0.139			
US NASA - \Q07-Aug-2008   O11   FLOW   0.066   O.111     US NASA - \Q07-Aug-2008   O01   FLOW   0.055   0.094     US NASA - \Q08-Ca-2008   O01   FLOW   0.055   0.095     US NASA - \Q08-Ca-2008   O01   FLOW   0.055   0.303     US NASA - \Q08-Ca-2008   O01   FLOW   0.095   0.005     US NASA - \Q08-Aug-2009   O01   FLOW   0.095   0.005     US NASA - \Q08-Aug-2005   O01   PH   0.5     US NASA - \Q08-Aug-2006   O01   PH	VA0024457	US NASA -	V 10-Jul-2008	801	FLOW	0,071	0.150	***************************************	T. T	
US NASA - \   OP-Sep-2008   OOI   FLOW   O.055   O.094     US NASA - \   OP-Sep-2008   OOI   FLOW   O.074   O.056     US NASA - \   OP-OP-C-2008   OOI   FLOW   O.056   O.076     US NASA - \   OP-Nev-2008   OOI   FLOW   O.056   O.030     US NASA - \   OP-Nev-2009   OOI   FLOW   O.040   O.070     US NASA - \   OP-Nev-2009   OOI   FLOW   O.040   O.070     US NASA - \   OP-Nev-2009   OOI   FLOW   O.040   O.070     US NASA - \   OP-Nev-2009   OOI   FLOW   O.040   O.070     US NASA - \   OP-Nev-2009   OOI   FLOW   O.047   O.085     US NASA - \   OP-Nev-2009   OOI   FLOW   O.047   O.085     US NASA - \   OP-Nev-2009   OOI   PH   O.095   O.011     US NASA - \   OP-Nev-2005   OOI   PH   O.095   O.01     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.01     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.01     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.00     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.005     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.005     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.095     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.095     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.095     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.095     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.095     US NASA - \   UP-Nev-2005   OOI   PH   O.095   O.095     US NASA - \   UP-Nev-2005   OOI   PH   O.095	VA0024457	US NASA -	V 07-Aug-2008	901	FLOW	090'0	0.111	***************************************	***************************************	-
US NASA - \090-Cet-2008   OOI   FLOW   O.074   O.169     US NASA - \090-Cet-2008   OOI   FLOW   O.051   O.076     US NASA - \090-Cet-2008   OOI   FLOW   O.053   O.11     US NASA - \090-Cet-2009   OOI   FLOW   O.059   O.056     US NASA - \090-Cet-2009   OOI   FLOW   O.039   O.056     US NASA - \090-Mar-2009   OOI   FLOW   O.039   O.056     US NASA - \090-Mar-2009   OOI   FLOW   O.050   O.070     US NASA - \090-Mar-2009   OOI   FLOW   O.050   O.070     US NASA - \090-Mar-2005   OOI   FLOW   O.056   O.012     US NASA - \090-Mar-2005   OOI   PH   C.090     US NASA - \090-Mar-2005   OOI   PH   C.090     US NASA - \090-Mar-2005   OOI   PH   C.000     US NASA - \090-Mar-2006   OO	VA0024457	US NASA -	V 09-Sep-2008	8	FLOW	0.055	0.094			
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US NASA - VOG-Feb-2009         001         FLOW         0.040         0.070           US NASA - VOG-Mar-2009         001         FLOW         0.039         0.055           US NASA - VOG-Apr-2009         001         FLOW         0.047         0.085           US NASA - VOG-Apr-2009         001         FLOW         0.055         0.112           US NASA - VOG-Reb-2009         001         PH         6.9           US NASA - VAI-Jan-2005         001         PH         6.9           US NASA - VAI-Apr-2005         001         PH         6.7           US NASA - VIO-Ray-2005         001         PH         6.5           US NASA - VIO-May-2005         001         PH         6.7           US NASA - VIO-May-2005         001         PH         6.7           US NASA - VIO-May-2005         001         PH         6.7	VA0024457	US NASA - \	V 08-Jan-2009	00	FLOW	0.055	0.303		***************************************	
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					0.114	0.200	0.126	0.207	0.023	0,170	0.174	.015	0.021	0.011	â	0.079	0.16	0.25	0.27	0.11	숔	0.016	0.068	980.0	0.12	0.13	0.42	08.0	0.078	0.044	0.050	0.088	790'0	0.010	0.086
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VA0024457	US NASA - 1	US NASA - \10-Jun-2005	001	TKN (N-KJEL)O.	0.157	0.215		0,7	0.7
VA0024457	US NASA - V	- V08-Jul-2005	901	TKN (N-KJEL)O.	0.159	0.270		0.5	0.7

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VA0024457	US NASA -	· V 11-Jan-2006	001	TKN (N-KJEL 0.16	0,23	0.80	0.88
VA0024457	US NASA -	V 10-Feb-2006	001	TKN (N-KJEL) «QL	ĝ	ŷ	ĝ
VA0024457	US NASA -		001	TKN (N-KJEL) 0.14	0.17	06'0	1.1
VA0024457	US NASA -	V 10-Apr-2006	001	TKN (N-KJEL) 0.13	0.16	0.83	06.0
VA0024457	US NASA -		001	TKN (N-KJEL) 0.14	0,17	0.73	0.87
VA0024457	US NASA -		901	TKN (N-KJEL) 0.16	0.18	72.0	0.78
VA0024457	US NASA -		001	TKN (N-KJEL) 0.25	0.27	0.82	0.96
VA0024457	US NASA -	V07-Aug-2006	00	TKN (N-KJEL)0.20	0.23	0.73	0.81
VA0024457	US NASA -		100	TKN (N-KJEL) 0.16	0.19	99'0	0.71
VA0024457	US NASA -	V05-Oct-2006	001	TKN (N-KJEL)0.15	0,20	0.59	0.69
VA0024457	US NASA -	V08-Nov-2006	80	TKN (N-KJEL) 0.03	90'0	0.14	0.21
VA0024457	US NASA -	V07-Dec-2006	001	TKN (N-KJEL) 0.0083	0.039	0.036	0.17
VA0024457	US NASA -	V09-Jan-2007	00	TKN (N-KJEL) 0.10	0.19	0,48	0.72
VA0024457	US NASA -	V07-Feb-2007	00	TKN (N-KJEL) 0.079	0,097	0.47	0.65
VA0024457	US NASA -	√06-Mar-2007	001	TKN (N-KJEL) 0.078	0.097	0.45	0.46
VA0024457	US NASA -	V09-Apr-2007	100	TKN (N-KJEL)0.050	0.11	0,30	0,60
VA0024457	• 1	. V 09-May-2007	001	TKN (N-KJEL)0.093	0.12	0.53	0.75
VA0024457	. 3	) 07-Jun-2007	8	TKN (N-KJEL)0.12	61.0	0.67	1.06
VA0024457	US NASA -	V09-Jul-2007	001	TKN (N-KJEL)0.16	0.17	0.72	0.80
VA0024457	- 1	V 09-Aug-2007	100	TKN (N-KJEL) 0.15	0.18	0,64	0.75
VA0024457	. [	V06-Sep-2007	001	TKN (N-KJEL)0.13	0.16	0,50	0.68
VA0024457	· .	V 09-Oct-2007	001	TKN (N-KJEL)0.061	0.071	0.36	0.43
VA0024457	US NASA -	V 07-Nov-2007	001	TKN (N-KJEL)0.020	960'0	0.11	0.20
VA0024457	US NASA -	V06-Dec-2007	100	TKN (N-KJEL) 0.019	0.026	0.13	0.18
VA0024457	US NASA -	V08-Jan-2008	100	TKN (N-KJEL)0.017	0.042	0.13	0.34
VA0024457	US NASA -	V07-Feb-2008	100	TKN (N-KJEL)0.035	0.057	0.23	0.38
VA0024457	US NASA -	V06-Mar-2008	001	TKN (N-KJEL)0.12	0.14	0.61	79.0
VA0024457	US NASA -	V09-Apr-2008	001	TKN (N-KJEL)0.023	0.033	0.13	0.19
VA0024457	US NASA -	V 08-May-2008	001	TKN (N-KJEL)0,0069	0.032	0.039	0.18
VA0024457	US NASA -	V09-Jun-2008	001	TKN (N-KJEL)0.16	0.21	0.74	0.82
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	NASA -	v 06-Nov-2008	8	TKN (N-KJEL 0.039	0.039	0,031	0.18	0.17
	NASA -	US NASA - 109-Dec-2008	901	TKN (N-KJEL) 0.035	0.035	0.70	0.18	0.37
	NASA -		8	TKN (N-KJEL) 0.058	0.058	01.0	0.27	0.38
	NASA -			TKN (N-KJEL	0.029	0.067	0.16	0.35
	NASA - 1			TKN (N-KJEL 0.037	0.037	0.067	0,24	0.39
	NASA - 1	US NASA - 108-Apr-2009		TKN (N-KJEL)	0.095	0,13	0.52	0.75
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## ATTACHMENT 7 SPECIAL CONDITIONS RATIONALE

### VPDES PERMIT PROGRAM LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

- B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS
- 1. Sludge Reopener

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-220 C., and 40 CFR 122.44 (c)(4), which note that all permits for domestic sewage treatment plants (including sludge-only facilities) include any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act.

2. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, Section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, Section 62.1-44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in according to Section 402(o)(1) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan or other wasteload allocation prepared under Section 303 of the Act.

3. Licensed Operator Requirement

Rationale: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

4. Reliability Class

Rationale: Required by Sewage Collection and Treatment Regulations, 12 VAC 5-581-20 and 120 for all municipal facilities.

5. CTC, CTO and O & M Manual Requirements

Rationale: Required by the State Water Control Law, Section 62.1-44.19; the Sewage Collection and Treatment Regulations (12 VAC 5-581 et seq); Section 401 of the Clean Water Act; 40 CFR 122.41(e); and the VPDES Permit Regulation (9 VAC-25-31-190E).

6. 95% Design Capacity Notification

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-200 B.2. for all POTW and PVOTW permits. Best professional judgement is used to apply this condition to other (private) municipal treatment facilities.

7. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4. Section b. of the special condition defines QL and is included per BPJ to clarify the difference between QL and MDL.

8. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters and some conventional parameters with quantification levels to ensure consistent, accurate reporting on submitted reports.

9. Indirect Dischargers

Rationale: Required by VPDES Permit Regulation, 9 VAC 25-31-200  $B.1. \ for \ POTWs \ and \ PVOTWs \ that receive waste from someone other than the owner of the treatment works.$ 

10. Sludge Management Plan

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-420, and 40 CFR 503.1 specify the purpose and applicability for sludge management plans. The VPDES Permit Regulation, 9 VAC 25-31-100 J.4., also sets forth certain detailed information which must be included in a sludge management plan. The VPDES sewage sludge permit application form and its attachments constitute the sludge management plan and will be considered for approval with the VPDES permit. In addition, the Biosolids Use Regulation, 12 VAC 5-585-330 and 340, specifies the general purpose and control requirements for an O&M manual in order to facilitate proper O&M of the facilities to meet the requirements of the regulation.

11. Cooling Water and Boiler Additives

Rationale: Chemical additives may be toxic or otherwise violate the receiving stream water quality standards. Upon notification, the regional office can determine if this new additive will warrant a modification to the permit.

- C. STORM WATER MANAGEMENT CONDITIONS
  - 1. Sampling Methodology for Specific Outfalls 003, 037, 038, 039

Rationale: Defines methodology for collecting representative effluent samples in conformance with applicable regulations.

2. Storm Water Management Evaluation

Rationale: The Clean Water Act 402(p) (2) (B) requires permits for storm water discharges associated with industrial activity. VPDES permits for storm water discharges must establish BAT/BCT requirements in accordance with 402(p)(3) of the Act. The Storm Water Pollution Prevention Plan is the vehicle proposed by EPA in the final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity (Federal Register Sept 9, 1992) to meet the requirements of the Act. Additionally, the VPDES Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44 (k) allow BMPs for the control of toxic pollutants listed in Section 307 (a)(1), and hazardous substances listed in Section 311 of the Clean Water Act

where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law.

Finally, the EPA produced a document dated August 1, 1996, entitled "Interim Permitting Approach for Water Quality- Effluent Limitations in Storm Water Permits". This document indicated that an interim approach to limiting storm water could be through the use of best management practices rather than numerical limits. EPA pointed out that Section 502 of the Clean Water Act (CWA) defined "effluent limitation" to mean "any restriction on quantities, rates, and concentrations of constituents discharged from point sources. The CWA does not say that effluent limitations need be numeric." The use of BMPs falls in line with the Clean Water Act which notes the need to control these discharges to the maximum extent necessary to mitigate impacts on water quality.

#### 3. General Storm Water Conditions

#### a. Sample Type

Rationale: This stipulates the proper sampling methodology for qualifying rain events from regulated storm water outfalls. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

#### b. Recording of Results

Rationale: This sets forth the information which must be recorded and reported for each storm event sampling (ie. date and duration event, rainfall measurement, and duration between qualifying events). It also requires the maintenance of daily rainfall logs which are to be reported. This condition is carried over from the previous storm water pollution prevention plan requirements contained in the EPA storm water baseline industrial general permit.

#### .c. Sampling Waiver

Rationale: This condition allows the permittee to collect substitute samples of qualifying storm events in the event of adverse climatic conditions. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

#### d. Representative Discharge

Rationale: This condition allows the permittee to submit the results of sampling from one outfall as representative of other similar outfalls, provided the permittee can demonstrate that the outfalls are substantially identical. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

#### e. Quarterly Visual Examination of Storm Water Quality

Rationale: This condition requires that visual examinations of storm water outfalls take place at a specified frequency and sets forth what information needs to be checked and documented. These examinations assist with the evaluation of the pollution prevention plan by providing a simple, low cost

means of assessing the quality of storm water discharge with immediate feedback. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

Rationale: This condition requires that the discharge of hazardous substances or oil from a facility be eliminated or minimized in accordance with the facility's storm water pollution prevention plan. If there is a discharge of a material in excess of a reportable quantity, it establishes the reporting requirements in accordance with state laws and federal regulations. In addition, the pollution prevention plan for the facility must be reviewed and revised as necessary to prevent a reoccurrence of the spill. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

g. Allowable Non-Storm Water Discharges

Rationale: The listed allowable non-storm water discharges are the same as those allowed by the EPA in their multi-sector general permit, and are the same non-storm water discharges allowed under the Virginia General VPDES Permit for Discharges of Storm Water Associated with Industrial Activity, 9 VAC 25-151-10 et seq. Allowing the same non-storm water discharges in VPDES individual permits provides consistency with other storm water permits for industrial facilities. The non-storm water discharges must meet the conditions in the permit.

4. Storm Water Pollution Prevention Plan

Rationale: The Clean Water Act 402(p) (2) (B) requires permits for storm water discharges associated with industrial activity. VPDES permits for storm water discharges must establish BAT/BCT requirements in accordance with 402(p)(3) of the Act. The Storm Water Pollution Prevention Plan is the vehicle proposed by EPA in the final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity (Federal Register Sept 9, 1992) to meet the requirements of the Act. Additionally, the VPDES Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44 (k) allow BMPs for the control of toxic pollutants listed in Section 307 (a)(1), and hazardous substances listed in Section 311 of the Clean Water Act where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law.

## ATTACHMENT 8 MATERIAL STORED

#### 2.0 INVENTORY OF EXPOSED MATERIALS

An inventory of exposed materials was developed from data collected through field surveys, inspections, and personnel interviews. NASA's website, MSDS Pro<sup>©</sup> (http://msds.gsfc.nasa.gov:8080/1/locset1), contains detailed chemical inventories, along with links to the corresponding MSDS, for each building at the facility.

The Environmental Office has actively sought to reduce the pollution potential from outdoor drum storage and loading activities by moving the majority of these activities under shelter.

WFF currently maintains 68 satellite and 3 less-than-90-day hazardous waste accumulation areas, most of which are covered and within secondary containment. One accumulation area, located at the D-37 aviation fuel farm, is exposed directly to storm water. However, to minimize risk, all materials are stored in a sealed drum within an area that drains through the outfall 302 oil/water separator. Several other accumulation areas present a storm water risk based upon their location within buildings. The accumulation areas at Buildings D-50 and B-31 on the Main Base and W-65 on the Island are located near large doors and are not protected with secondary containment. The accumulation area at building F-27 is under a roof, but does not have secondary containment. Furthermore, the accumulation areas in D-1 and N-159 hangars are located in areas of the buildings in which floor drains are connected to the storm sewer. Although these areas are not exposed to storm water, the occurrence of a spill in conjunction with a storm event presents a risk. To ensure the integrity of all accumulation areas and to minimize storm water risk, they are inspected at least annually by the WFF Environmental Office. Less than one 55-gallon (208.175 liter) drum of any hazardous waste or 1 quart (0.95 liters) of an acutely hazardous waste, P-listed (40 CFR 261.33), may be stored at any of the above mentioned satellite accumulation areas.

### 3.0 APPLICATION OF PESTICIDES, HERBICIDES, SOIL CONDITIONERS, AND FERTILIZERS

No pesticides or soil conditioners are used at WFF. Monsanto's Round-Up herbicide is spray applied biannually around facility-wide signs and shrubbery to reduce weeds. Flowerbeds adjacent to various buildings are fertilized annually with spray application of Scotts Miracle-Gro. DuPont's Hyvar herbicide is sprayed once or twice a year on cracks in the runway to prevent vegetative growth.

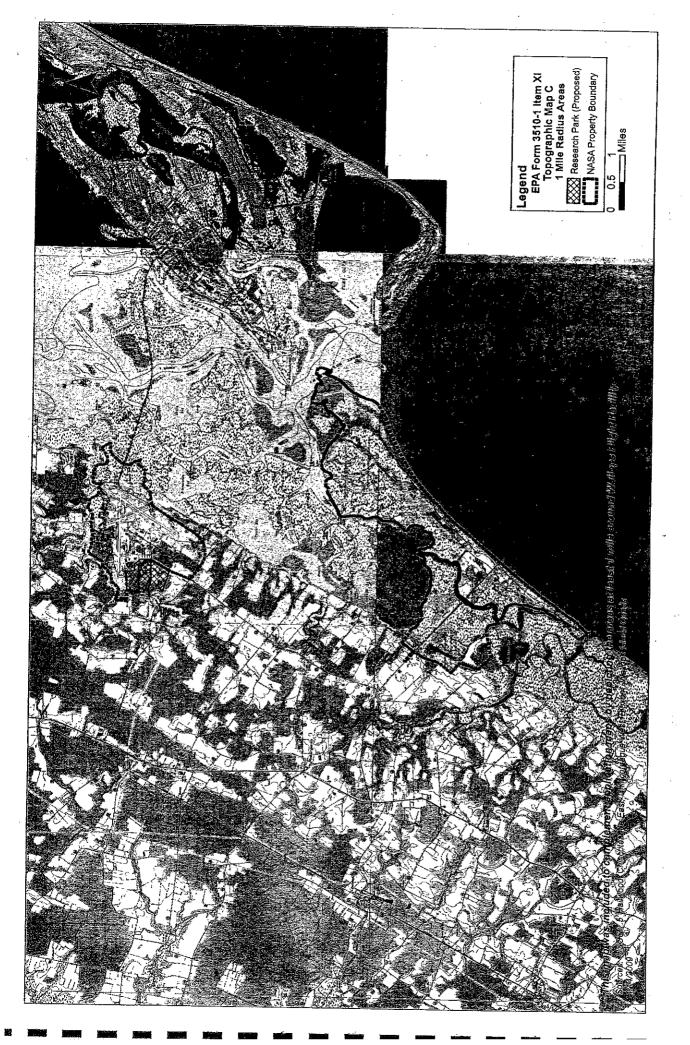
#### ATTACHMENT 9

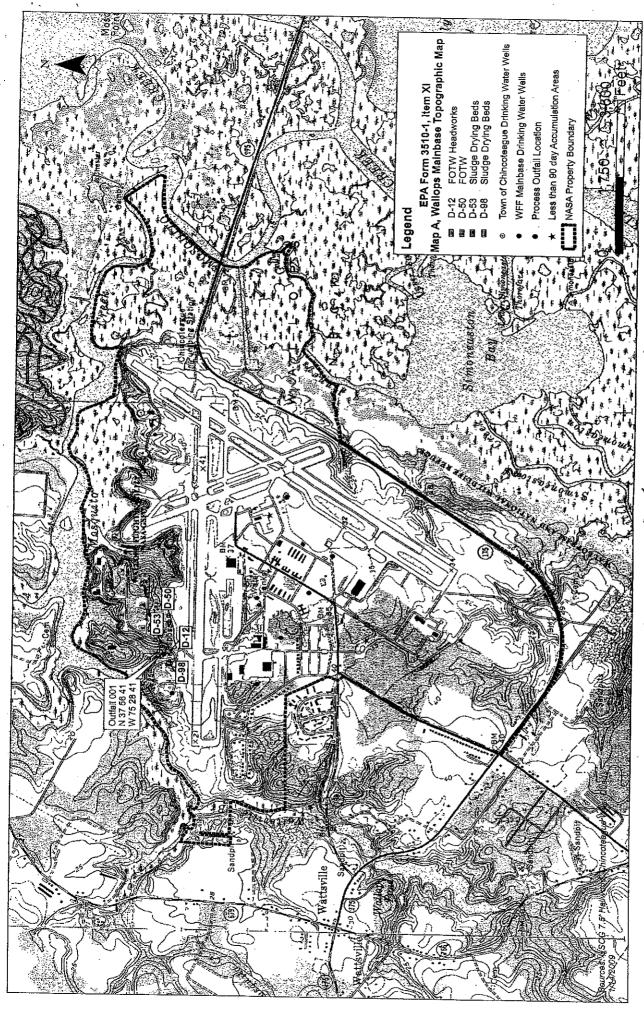
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STREAM MODELING / IMPAIRED SEGMENTS / TMDL's

## MEMORANDUM

### Department of Environmental Quality Tidewater Regional Office

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	5636 Southern Boulevard		
Frank	SUBJECT: VPDES Applica Stephen Ciocc FROM: Squer DATE: 2/27/09 COPIES: TRO File - fac	, TRO	Virginia Beach, VA 23462
-	An application has been	received for the f	ollowing facility.
	VPDES #: <u>VA00 24457</u> E	Tacility Name. MAS	A hallops Flit Til
	Topo Map Name: Hall w	ed, Chin Cotenque	West
	Receiving Stream: Un [Must be provided for ea request will be returned	named Tributory ch outfall included	to Little Mosquite Creek I in this request or
	Attached is a Topographic and outfall location(s)for provided or request will	be returned]	n cars request.[MUST be
. 7	Attached is a stream data	Request Form (if	data is manual v
1	Very request the following  Outfall 001  X Tier Determinate  Please include  Outfall 001  X Tier Determinate  Not  Stream Data Room	information from your ion. Tier: 1 ( ) a basis for the tie	ischarge to receiving stream ith 7010=0 er determination.
	X_ Is this facility	reter MOST. De	COmpleted & inclusion
	No	Yes No wh	, but will be included en the Plan is undated
	X Are limits conta	ined in a Manageme	nt Plan?
	X Indicate outfall impaired (Catego:	Sec attal (s) which discharge ry 5) stream segmen	chment 2  directly to an  t?
6.	X Are outfall(s) W	As contained in ar	annyoured man-
	No	Yes (If Yes, Pleas	e include the WLAs)
	urn Date Requested:3	/10/09 See	attachment 3
Dat	te Returned: $3/6/0$	9	





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#### VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: <u>US - NASA Wallops Flight Facility</u>
	Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? NO
3.	Provide the tax map parcel number for the land where the discharge is located. 28((A)) 75 Mainbase
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? $5 - 10$ acres
5.	What is the design average effluent flow of this facility?0.3MGD
	For industrial facilities, provide the max. 30-day average production level, include units: N/A
	In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels?  NO
	If "YES", please identify the other flow tiers (in MGD) or production levels:
	Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is you facility's design flow considerably greater than your current flow?
6.	Nature of operations generating wastewater: <u>Domestic Waste Water</u>
	90% of flow from domestic connections/sources
	90% of flow from domestic connections/sources  Number of private residences to be served by the treatment works:  157  Tidewater P
	10% of flow from non-domestic connections/sources  Mode of Discharge: X. Continuous Intermittent
7.	Mode of Discharge: X Continuous Intermittent Seasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
	Permanent stream, never dry  X Intermittent stream, usually flowing, sometimes dry  Ephemeral stream, wet-weather flow, often dry
	Effluent-dependent stream, usually or always dry without effluent flow  Lake or pond at or below the discharge point  Other
9.	Approval Date(s):  O&M Manual 07/07 Sludge/Solids Management Plan 08/04
	O&M Manual Addendum Metals Removal System 07/08
	Have there been any changes in your operations or procedures since the above approval dates? NO

Until further guidance is provided by OWRM Permits, assessment of waters for NH3 should be based upon OWRM Guidance No. 93-015 from Larry G. Lawson, dated June 22, 1993.

The above guidance specifies that the ambient NH3 data should be compared to the NH, standard (calculated using 90th percentile of ambient data for pH and temperature of that segment) and by using the "STANDARDS.EXE Program" developed by OWRM Permits Modelling. (These environmental conditions are considered critical design conditions to protect water quality and to comply with WQS.) the 97th percentile of the in-stream data is greater than either of the calculated NH, standards (chronic or acute), then OWRM considers the standard is being violated and the segment is WQL.

#### Wasteload Allocations Where The 7010 Is Zero Or Minimal

A discharge to a water course with a 7Q10 of zero or near zero would be required to have effluent limits that would comply with Scandards. Therefore, the discharge would be WQL and the receiving water course with a 7Q10 of zero near zero would be considered a tier 1 segment.

A discharge to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving to a tier 1 water to would be the receiving the rec Outfall to be "self sustaining" so to comply with water quality 001 standards. Therefore, the discharge would be WQL and the considered a tier 1 segment.

would have to be evaluated for antidegradation at the point of confluence of the two water courses,  $\bar{i}f$  the discharge  $\bar{i}s$  in close enough proximity to impact the tier 2 water. In the above scenario, antidegradation requirements to protect tier 2 waters may apply to a discharge to a tier 1 water. Therefore, effluent limits may be more stringent than required by the numerical water quality standards.

If a discharge occurs to a dry ditch or tributary that empties into a free flowing stream and the distance from the discharge to the next confluence is too short to model (based upon the current modelling programs), then the discharge should be modelled as if it occurs directly to the free flowing stream.

#### Estuaries - Wasteload Allocations & TMDL Development

Similar to freshwater streams, water quality wasteload allocations (WQWLAs) and TMDLs in all tidal influenced waters will be expressed as a mass limitation for the conventional parameters (BOD<sub>5</sub>, cBOD<sub>5</sub> TKN, and NH<sub>3</sub>) and as a concentration for toxics.

Tidal freshwater segments and transition zone segments identified

Tier 1 Justification for Low Flow Streams

## DEPARTMENT OF ENVIRONMENTAL QUALITY WATER DIVISION OFFICE OF WATER RESOURCE MANAGEMENT

(SECOND DRAFT)

GUIDANCE MANUAL

FOR THE

VIRGINIA WATER QUALITY MANAGEMENT PLAN

March 4, 1994

#### Small Coastal and Chesapeake Bay

#### TABLE B2 - EASTERN SHORE WASTELOAD ALLOCATIONS

			RN SHORE WAST		OCATIONS	•			
	•	INTERIM	WASTELOAD ALLO	···	FINAL V	FINAL WASTELOAD ALLOCATIONS			
	RECEIVING	(Current Permit Limits)							
	STREAM OR		GI (CDE) myrm	OIL &	ĺ		OIL &		
NAME	ESTUARY	BOD <sub>5</sub> (Ib/d)	SUSPENDED	GREASE		SUSPENDED	GREASI		
Commonwealth of Va.	Pitts Cr.	43	SOLIDS (Ib/d)	(lp/dl)	BOD <sub>5</sub> (lb/d)	SOLIDS (lb/d)	(Ib/d)		
Rest Area		. 43	4.3		4.3	4.3			
Edgewood Park	Bullbegger Cr.	0.80	0.80	<del>  -</del> :-	0.80	0.80			
Holly Farms	Sandy Bottom Cr.	167 <sup>(3)</sup>	167 <sup>(3)</sup>	10 mg/l		/model and determ			
Toylor Backing C					wasteload allo	ocations planned for	the summer o		
Taylor Packing Company	Messongo Cr.	7006 <sup>(3)</sup>	13010 <sup>(3)</sup>	-	Stream survey	/model was run pre	viously. No		
No. Accomack E.S.	Messongo Cr.	1.8	1.4			mit anticipated.			
Messick & Wessels	Muddy Cr.	30mg/l <sup>(4)</sup>	30mg/I <sup>(4)</sup>	<del> </del> _	1.8	1.4			
Nelsonia		Joingi	30mg/r		based on BAT	oad allocations may	be changed		
Whispering Pines Motel	Deep Cr.	4.8	4.8	<del> </del>	4.8		<del></del>		
Town of Onancock	Onancock Cr.	21	21		21	4.8	<del>-</del>		
Messick & Wessels	Onancock Cr.	30mg/1 <sup>(4)</sup>	30mg/I <sup>(4)</sup>			oad allocations may	<del>  -</del> -		
				1	based on guida	oad anocanons may	be changed		
So. Accomack E.S.	Pungoteague Cr.	1.8	1.4	T	1.8	1.4	$\overline{}$		
A & P Exmore	Nassawadox Cr.	0.38	0.38		0.38	0.38	<del> </del> -		
Norstrom Coin Laundry	Nassawadox Cr.	60mg/l <sup>(4)</sup> max.	60mg/1 <sup>(4)</sup> max.	<del>                                     </del>		oad allocation may			
			-		based on BAT	oau anocanon may :	oe cnanged		
NH-Acc. Memorial	Warehouse Cr.	12.5	12.5	-	21.5	12.5	T		
Hospital			·		.   "	11.0	_		
Machipongo E.S. & H.H. Jr. High	Trib. To Oresbus Cr.	5.2	5.2		5.2	, 5.2	<del></del>		
Town of Cape Charles	Cape Charles	62.6	62.6		<del> </del>				
*	Harbor	02.0	02.0	-	62.6	62.6			
America House	Chesapeake Bay	5	5		5	5.			
U.S. Coast Guard	Chesapeake Bay	_	-	10/mgl <sup>(5)</sup>	<del>†</del>	<u> </u>	10/1(5)		
Chesapeake Bay			<u> </u>		1	-	10/mgl <sup>(5)</sup>		
U.S. Government Cape Charles AFB	Magothy Bay			Currently No	Discharge	· · · · · · · · · · · · · · · · · · ·	L		
Exmore Foods (Process	Trib. To Parting	200	100	····	Ctura	·			
Water)	Cr.		100		Stream survey/	model and determin	ation of final		
					Wasteload alloc	ations planned for t	he summer of		
Exmore Foods (Sanitary)	Trib. To Parting	30mg/l <sup>(5)</sup>	30mg/l <sup>(5)</sup>		1980.	-/5	· · · · · · · · · · · · · · · · · · ·		
	Cr.		Jongi		30mg/l <sup>(5)</sup>	30mg/I <sup>(5)</sup>	. –		
erdue Foods (process	Parker Cr.	May-Oct			Interior Remait				
vater)	. ·	275 367			Were The Manne	n process. Stream s	urvey/models		
	'	Nov-Apr.			anticipated	bstantial change in	permit		
		612 797			anticipated.	sec attack	ek .		
erdue Foods (parking lot)	Parker Cr.	30rng/I <sup>(5)</sup>	30mg/I <sup>(5)</sup>		30mg/i <sup>(5)</sup>	30mg/l <sup>(5)</sup>	· · · · · · · · · · · · · · · · · · ·		
recomack Nursing Home	Parker Cr	2.7	2.6		2.7	26			
J.S. Gov't NASA Wallops	Mosquito Cr.	75	75		75	75.			
sland				_	'3	15.			
.S. GOVI NASA wanops	Cat Cr.	1.23	1.25		105	1.25			
sland				• .	-,				
& G Laundromat	Chincoteague	10	4.8		Interim wastelos	d allocations may b	e choncad		
(8.0	Channel		·.		based on BAT g	uidance	e changed		
J.S. Coast Guard	Chincoteatue		-	15mg/l (max.)			15mm/1		
7: -: : C ** ·	Channel	· .		2 ()		· - 1	15mg/l		
/irginia- Carolina cafood	Chincoteague Bay	342	264	5.5	342	264	(max.) 5.5		
						204	2.3		
eginald Stubbs Seafood	Assateague		20	95		20	95		
o. (VA0005813)	Channel					20	93		
eginald Stubbs Seafood	Assateague	- 1	20	98		20.4(2)	98		
o. (VA00056421) hreaves	Channel			Ť		20.7	78 .		
	Character 20	- 1	0						
hincoteague Seafood	Chincoteague Bay Chincoteague Bay	342	16(2)	1.4(2)		16(2)	1.4(2)		

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published March 24, 2003

10B, 11B, 12B	Trammel- McClure	WQ	Permit	to be issued	in future	Not on priority list.
9T	Wise	WQ	0.28	112	112	Step I in progress (with Norton).

<sup>&</sup>lt;sup>1</sup> Dischargers are shown on Plate 3-B (Map No. with "B" designates Big Sandy) and 3-T (Map No. with "T" designates Tennessee).

Source: Thompson & Litton and State Water Control Board.

9 VAC 25-720-100. Chowan Rive-Dismal Swamp River Basin (Reserved).

9 VAC 25-720-110. Chesapeake Bay - Small Coastal - Eastern Shore River Basin.

A. Total maximum Daily Load (TMDLs).

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

Small Coastal and Chesapeake Bav-

#### TABLE B1 - CURRENT STREAM SEGMENT CLASSIFICATION

	· · · · · · · · · · · · · · · · · · ·	
Segment No.	Name	Current State Class
7-12A	Pocomoke Sound	EL
7-12B	Messongo Creek	EL
7-12C	Beasley Bay	EL
7-12D	Chesconessex Creek	EL
7-13	Onancock Creek	WQ
7-14	Pungoteague	WQ
7-12E	Nandua Creek	EL
7-15	Occohannock Creek	WQ
7-12F	Nassawadox Creek	EL
7-12G	Hungars Creek	EL
7-12H	Cherrystone Inlet	EL
7-121	South Bay	EL
7-12J	Tangier Island	
7-11A	Chincoteague	EL
7-11B	Hog Bogue	EL
7-11C	Metomkim Bay	. EL
7-11D	Machipongo River	EL .
7-11E	South Ocean	EL

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<sup>&</sup>lt;sup>2</sup> Effluent Limiting (EL) or Water Quality (WQ).

<sup>&</sup>lt;sup>3</sup> For existing sewage treatment facility.

<sup>&</sup>lt;sup>4</sup> For new sewage treatment facility.

<sup>\*</sup>Seasonal NPDES allowable loading: April to September/October to March.

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	Completi Approval	01/08
	Completi	>
	Permits	VA0024457
_	WLA	6.15E+08
	Use	Shellfish
	TMDL Pollutant	5 S
	Size	9597 ac
	County	Accomack
	Stream Name	Little Mosquito Creek
	Growing Area	100
	Closure	032A
	DEQ ID	VAI-D01E-14



## COMMONWEALTH of VIRGINIA Department of Health DIVISION OF SHELLFISH SANITATION 109 Governor Street, Rooms 614-B Richmond, VA 23219

Ph: 804-864-7487 Fax: 804-864-7481

MEMOR	ANDUM
DATE:	3/3/2009
то:	Mark H. Sauer Department of Environmental Quality
FROM:	Robert E. Croonenberghs, Ph.D., Director Division of Shellfish Sanitation
SUBJEC	T: Project Comments: US NASA Wallops Flight Facility
City / Co	unty: Accomack
Type: [	dy: UT to Little Mosquito Creek  VPDES  VMRC  VPA  VWP  JPA  Other.  On / Permit Number: VA0024457  Toject will not affect shellfish growing waters.
☐ The D	ivision has no comments on the proposal. The project will involve approved shellfish growing waters, a change in classification will not be required.
✓ The Dand wi	ivision has no comments on the proposal. The project will affect <u>condemned</u> shellfish growing waters Il not cause an increase in the size or type of the closure.
OOIIGO	oject will affect condemned shellfish waters and will not cause an increase in the size of the total mnation. However, a prohibited area (an area from which shellfish relay to approved waters for selfation is not allowed) will be required within a portion of the currently condemned area. See comments.
A buffe	er zone (including a prohibited area) has been previously established in the vicinity of this discharge, er, the closure will have to be revised. Map attached.
This prohibi Other.	oject will affect approved shellfish waters. If this discharge is approved, a buffer zone (including a ted area) will be established in the vicinity of the discharge. Map attached.
DDITIONAL COMMENTS	







## COMMONWEALTH of VIRGINIA

KAREN REMLEY, MD MBA FAAP STATE HEALTH COMMISSIONER

## Department of Health OFFICE OF DRINKING WATER

SOUTHEAST VIRGINIA ENGINEERING FIELD OFFICE

630 SOUTHAMPTON AVENUE, ROOM 2058 NORFOLK, VIRGINIA 23510-1001 PHONE (757) 683-2000 FAX (757) 683-2007

					MEMO	RANDUM					
то:			mental Êngi			DATE: - Tidewater Reg	-	R 0 2 A	2009	RECEIV MAR O	ED-L
FROM	<b>:</b> :		3. Horne, P.E ring Field Di		DB	4			Tia	lewater Re Office	2009
CITY/	COUNTY	7: ACC	OMACK	٠						Office	gional
PROJE	ECT TYP	E:	□ New	, I	X Renewa	l or Revision			`		
$\boxtimes$	VPDES		□ VPA		□VWPP	□JPA		☐ Other	•	-	
$\boxtimes$	Number	: <u>VA 00</u>	24457						-		
OWNE	R/APPLI	ICANT:	NASA/NAS	A-GS	FC-WFF						-
PROJE	CT:		NASA Wall	ops Fl	ght Facility	٠.		٠.		•	
X	There are	e no publ stream of	lic water supp f the discharg	oly raw e.	water intak	es located within	n 15 m	iiles dowi	nstream or	within one	tidal :
	downstr	ream/upsi	tream] of the	discha	rge. This sh	works is located tould be a sufficite bility Class of	ient di	stance to	minimize	the impacts	s of
			ake for the _ ream (within	one ti	dal cycle)] e	_ waterworks is of the discharge.	locate	d	mil	es	
	Please fo	orward a o	copy of the D	raft Pe	ermit for our	review and com	ment.				
	Commen	nts:							•		
Prepared		Dixon W District I	. Tucker, P.I		wher	<del>galaina</del> ar.	-				
pc:	V.D.H	Office of	f Drinking W	ater, F	ield Service	s Engineer			·		



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### ATTACHMENT 10

TABLE III(a) AND TABLE III(b) - CHANGE SHEETS

## TABLE III(a)

# VPDES PERMIT PROGRAM Permit Processing Change Sheet

Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes). .

DATE & INITIAL	·
RATIONALE Storm water outfalls that are not associated with industrial activities, but are point sources of storm water, so they have been included in the permit	Storm water outfalls that are not associated with industrial activities, but are point sources of storm water, so they have been included in the permit
EFFLUENT LIMITS CHANGED FROM / TO No monitoring is included in the permit	No monitoring is included in the permit
MONITORING LIMITS CHANGED FROM / TO No monitoring is included in the permit	No monitoring is included in the permit
PARAMETER CHANGED Outfalls added to the permit	Outfalls added to the permit
OUTFALL NUMBER 021 - 024	031-036

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INTTIAL
037, 038, 039	Flow, TSS, TPH	None / 1/6 months	None / NL	New outfalls that have storm water	
	Hđ	None / 1/6 months	None / 6.0 SU - 9.0 SU	and non-storm water components.	
			Takan padakan pada		
			TOTAL CONTRACT CONTRA		
OTHER CHANGES FROM:	GES FROM:		CHANGED TO:		DATE & INTTIAL
Schedule o	f Compliance for	Schedule of Compliance for e. coli and total copper	Compliance schedule has been removed from the permit; time frame in the schedule is up, limits are now effective.	removed from the hedule is up, limits	

TABLE III(b)

VPDES PERMIT PROGRAM Permit Processing Change Sheet Effluent Limits and Monitoring Schedule: (List any changes MADE DURING PERMIT PROCESS and give a brief rationale for the changes). .

	,						
DATE & INITIAL							
RATIONALE		,	, in the state of				
RAC							
ANGED	***************************************						
EFFLUENT LIMITS CHANGED FROM / TO							
BFFLUEN				-			
CHANGED							
MONITORING LIMITS FROM / TO							
MONITOR					-		
PARAMETER CHANGED							
OUTFALL							

1		1	
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DATE & INITIAL			
L AC			
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Nation Administration (Co.	ı		- 1

## ATTACHMENT 11

EPA PERMIT CHECKLIST

## State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

#### Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Fa	cility Name:	US	NASA	Wallops	FlishT	Faei	lity	
NF	PDES Permit Number:	(	/A00Z	4457				
Pe	rmit Writer Name:			k Saver				
Da	te:		61	129/09				
N	fajor [ ]	Minor [4	•	Industrial [ ]		Muni	icipal [	4
I.A	. Draft Permit Package S	ubmittal Inc	ludes:			Yes	No	N/A
1.	Permit Application?							-
2.	Complete Draft Permit (for including boilerplate inform	renewal or fation)?	irst time per	mit – entire pe	rmit,			
3.	Copy of Public Notice?						<u>/</u> :	
4.	Complete Fact Sheet?							
5.	A Priority Pollutant Screen	ing to detern	nine parame	ters of concerr	า?			
6.	A Reasonable Potential an	alysis showi	ng calculate	d WQBELs?				
7.	Dissolved Oxygen calculat	ions?						
8.	Whole Effluent Toxicity Te	st summary a	and analysis	?				
9.	Permit Rating Sheet for ne	w or modifie	d industrial f	acilities?	_			
	I.B. Per	mit/Facili	ty Charact	eristics		Yes	No	N/A
1.	Is this a new, or currently u	inpermitted f	acility?					· · · · · · · · · · · · · · · · · · ·
2.	Are all permissible outfalls process water and storm wauthorized in the permit?	(including co rater) from th	mbined sev e facility pro	ver overflow po perly identified	oints, non- l and		56"	, ,
3.	Does the fact sheet <b>or</b> peritreatment process?	mit contain a	description	of the wastewa	ater			

I.B. Permit/Facility Char	acteristics - cont.	Yes	No	N/A
Does the review of PCS/DMR data for at lessing significant non-compliance with the existing significant non-complication significant non-complication significant non-complication significant non-c	east the last 3 years indicate g permit?			
5. Has there been any change in streamflow was developed?	characteristics since the last permit			
6. Does the permit allow the discharge of new pollutants?	or increased loadings of any	-		
<ol> <li>Does the fact sheet or permit provide a de- body(s) to which the facility discharges, inc flow conditions and designated/existing use</li> </ol>	luding information on low/critical			
8. Does the facility discharge to a 303(d) liste	d water?		1	
a. Has a TMDL been developed and appro-	ved by EPA for the impaired water?			
<ul> <li>b. Does the record indicate that the TMDL of list and will most likely be developed with</li> </ul>	development is on the State priority nin the life of the permit?			
<ul><li>c. Does the facility discharge a pollutant of 303(d) listed water?</li></ul>	concern identified in the TMDL or			
9. Have any limits been removed, or are any the current permit?	limits less stringent, than those in			-
10. Does the permit authorize discharges of sto	orm water?	Land Market		
11. Has the facility substantially enlarged or alt increased its flow or production?	ered its operation or substantially			-
12. Are there any production-based, technolog permit?	y-based effluent limits in the			
13. Do any water quality-based effluent limit ca standard policies or procedures?	lculations differ from the State's		S. depthered and	
14. Are any WQBELs based on an interpretation	on of narrative criteria?			
15. Does the permit incorporate any variances standards or regulations?	or other exceptions to the State's			
16. Does the permit contain a compliance sche	dule for any limit or condition?			
17. Is there a potential impact to endangered/th by the facility's discharge(s)?	nreatened species or their habitat			
18. Have impacts from the discharge(s) at dow been evaluated?	nstream potable water supplies	. John Bridge	-	
19. Is there any indication that there is significa action proposed for this facility?	nt public interest in the permit		1.	
20. Have previous permit, application, and fact	sheet been examined?			٠. ٢

#### Part II. NPDES Draft Permit Checklist

## Region III NPDES Permit Quality Checklist – for POTWs (To be completed and included in the record <u>only</u> for POTWs)

	II.A. Permit Cover Page/Administration	Yes	No	N/A
1.	Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?			
2.	Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	1		
	II.B. Effluent Limits - General Elements	Yes	No	N/A
1.	Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?			
2.	Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			
11.0	C. Technology-Based Effluent Limits (POTWs)	Yes	No	N/A
1.	Does the permit contain numeric limits for <u>ALL</u> of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?			
2.	Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?			
	a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			
3.	Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?			
4.	Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?			
5.	Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?			
	a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			*
		<u></u>		25- 25-
	II.D. Water Quality-Based Effluent Limits	Yes	No 🦠	N/A
1.	Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?			
2.	Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			• • • • • • • • • • • • • • • • • • • •
11.11	D. Water Quality-Based Effluent Limits – cont.	Yes	No	N/A
3.	Does the fact sheet provide effluent characteristics for each outfall?			

4.	Does the fact sheet document that a "reasonable potential" evaluation was performed?	Land of the land o		
	a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	E. Market		
	b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			
	c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?			
	d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?			
	e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?	Name of the last o		
	Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	J.		
	For all final WQBELs, are BOTH long-term AND short-term effluent limits established?			
7.	Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	/		
8.	Does the record indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?			
	II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1.	Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?	./	140	IVA
	a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
	Does the permit identify the physical location where monitoring is to be performed for each outfall?			
;	Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?			
4.	Does the permit require testing for Whole Effluent Toxicity?		/	s
	II.F. Special Conditions	Yes	No	N/A
1.	Does the permit include appropriate biosolids use/disposal requirements?			
2.	Does the permit include appropriate storm water program requirements?	/		Ŷ.
i.F.	Special Conditions – cont.	Yes	No	N/A
	If the permit contains compliance schedule(s), are they consistent with			
3.	statutory and regulatory deadlines and requirements?	İ		

(SSOs) or treatment plant bypa	ze discharge of sanitary sewage to or CSO outfalls [i.e., Sanitary Seasses]?	from points ewer Overflows			
<ol><li>Does the permit authorize disc (CSOs)?</li></ol>	charges from Combined Sewer C	verflows			
a. Does the permit require imp	lementation of the "Nine Minimur	n Controls"?			
b. Does the permit require dev Control Plan"?	elopment and implementation of	a "Long Term			
c. Does the permit require mor	nitoring and reporting for CSO ev	ents?			
7. Does the permit include appro	priate Pretreatment Program req	uirements?			
· II.G.	Standard Conditions		Yes	No	N/A
<ol> <li>Does the <b>permit</b> contain all 40 equivalent (or more stringent) or</li> </ol>		s or the State			
ist of Standard Conditions – 40	) CFR 122.41				
Need to halt or reduce activity not a defense Duty to mitigate Proper O & M	Duty to provide information Inspections and entry Monitoring and records Signatory requirement Bypass	Planned Anticipate Transfers Monitorin	ed nonc s ig report	ts	nce
Permit actions	Upset	Compliar 24-Hour i Other noi	reporting	g	
Permit actions  2. Does the permit contain the ad equivalent or more stringent co	Upset  Iditional standard condition (or the anditions) for POTWs regarding named industrial users [40 CFR	24-Hour in Other not be State not of 122.42(b)]?	reporting n-compl	g iance	
Permit actions  2. Does the permit contain the ad equivalent or more stringent co	Upset  Iditional standard condition (or the anditions) for POTWs regarding named industrial users [40 CFR	24-Hour in Other not be State so tification of	reporting n-compl	g iance	
Permit actions  2. Does the permit contain the adequivalent or more stringent contains and new introduction of pollutants a	Upset  Iditional standard condition (or the nditions) for POTWs regarding nand new industrial users [40 CFR	24-Hour in Other not be State station of 122.42(b)]?	reporting n-compl	g iance	·
Permit actions  2. Does the permit contain the adequivalent or more stringent contain the adequivalent or more stringent contains a second contains and actions of pollutants are also as a second contains and actions.	Upset  Iditional standard condition (or the anditions) for POTWs regarding nearly industrial users [40 CFR	24-Hour in Other now of the Other now of 122.42(b)]?	reporting n-compl	g iance	ė
Permit actions  2. Does the permit contain the adequivalent or more stringent conew introduction of pollutants a	Upset  Iditional standard condition (or the anditions) for POTWs regarding nand new industrial users [40 CFR	24-Hour in Other not e State notification of 122.42(b)]?	reporting n-compl	g iance	·
Permit actions  2. Does the permit contain the adequivalent or more stringent conew introduction of pollutants a	Upset  Iditional standard condition (or the nditions) for POTWs regarding nand new industrial users [40 CFR	24-Hour in Other not e State not included the later than 122.42(b)]?	reporting n-compl	g iance	∌
Permit actions  2. Does the permit contain the adequivalent or more stringent conew introduction of pollutants a	Upset  Iditional standard condition (or the nditions) for POTWs regarding nand new industrial users [40 CFR	24-Hour in Other not e State not included the later than 122.42(b)]?	reporting n-compl	g iance	∌
Permit actions  2. Does the permit contain the adequivalent or more stringent conew introduction of pollutants a	Upset  Iditional standard condition (or the nditions) for POTWs regarding nand new industrial users [40 CFR	24-Hour in Other not e State not included the later than 122.42(b)]?	reporting n-compl	g iance	∌

#### Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name

Mark Janer

Title

Permit writer

Signature

Date

Mark Janer

Andre Janer

Daner

Permit writer

Mark Janer

Andre Janer

Permit writer

Mark Janer

Permit writer

Mark Janer

Permit writer

Mark Janer

Permit writer

Mark Janer

ATTACHMENT 12

CHRONOLOGY SHEET

Permit No:	VA0024457	VPDES Individ	<ul> <li>Application</li> </ul>	Facility:	US NASA - Wallops Flight Facility	Main Base
Owner;	NASA-WALLOPS FL	LIGHT FACILITY 4	C Apiec 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Permit Writer:	Sauer Mark H	
eneral ligor	metion Eve	ents Special Conditions -P	ermit Outfall Informati	ion£imits Bi	illing info 1 and Application	GIS Information
			Events			
	Code	Description	Date Anticipate	Date d Completed	Comments	
	PREVELED	Old expiration date		08/22/2009	L P C C C C C C C C C C C C C C C C C C	
	OTLP	Reissuance letter mailed		08/22/2008		
	APRPHOCAL1	First Application Reminder Pho	ne Call	09/16/2008		
	APRPHOCAL2	I Second Application Reminder I	Phone Call	12/18/2008		
	APDU	■ Reissuance application due	(100 or 100 o	02/23/2009		
	SCCERTR	State Corporation certification	received	- [		
	FAMSUB	1 Financial Assurance Mechanis				
	APRO	4 Application received at RO 1st	time	82/11/2009		
	DEPFEE	4 Application fee deposited			(A	
	APRET1	1 App returned/Additional info re	equested 1s			
	LGMRAPP	I local goo't notified of receipt of	app. (IssM			
	RORITE	I Riparian owner request sent to	n fax commi		IA	

Permit No:	VA0024457		VPDES Individual Permit  App	Dication	Facility:	US NASA - Wallops Flight Facility - Main Base	1
owner:	HASA-WALLOPS F	Ligi	T FACILITY <u>1</u>	-A-1-1080	Permit Writer:	Sauer Mark H	1
eneral Inform	nation Eu	ents	Special Conditions—Permit Out	fall Informatio	oAlmits i	Billing linfo Land Application GIS Information	
			Events				
	Code		Description	Date Anticipated	Date Completed	Comments	
	ROAPCP	Ŧ	Application Administratively complete		02/11/2009		
	APCOMLET		App complete letter sent to permittee	<u>Da tal</u>	06/04/2009		
	DT1VOH	•		م نند کو نام کار	02/26/2009	vdh des vmrc	
	DYMIF		App sent to Fed Agencies (list in commen		المنا المستناديان		
	DTC4VBH	4	Comments rec'ed from State Agencies on		03/04/2009		
	DTCOE	M. Nininer	Comments rec'ed from Federal Agencies				
	VPDESHO	1	Permit number obtained (Iss)				
	APCP	1	Application totally / technically complete		03/04/2809		
	DISHE	Ł	Site visit	liti de la milia de la mar	07/25/2007		
	OTSITERP	Ł	Site inspection report		07/27/2007		
	OTOOP	1	Braft permit developed	dii Jes	06/30/2009		
	DTREY	1	Braft reviewed		07/01/2009		

ermit No:	VA0024457			Application	Facility:	US NASA - Wallops Flight Facility	- Main Base
wner:	NASA-WALLOPS	FLIGHT FACILITY	I i i i i i i i i i i i i i i i i i i i	Action Material	Permit Write:	Sauer Mark H	
eneral Inform	nation E	vents Sp	ecial Conditions—Permit	Outfall Information	Mimits	Billing Info Land Application	GIS Information
			Ever	nts			
	Code		Description	Date	Date	Comments	
	DISPLAN	1 FS/SOB dra	ft permit sent to planning	Anticipated	Completed 07/06/2009		<b>.</b>
	BIPLAN		ncurrence on draft permit		<b>08/14/2</b> 009		
	DTEPA	♣ FS/SOB dra	ft permit sent to EPA/OWPS	7	07/06/2009		
	OTC2EPA		rence on draft permit	·····	08/04/2009	epa did not comment win the time fr	
	OTPKVDH	FS/SOB draf	It permit sent to State Agen	Cici	1.1.	MA	
	DTC2VDH	4 VDH concur	mence on draft permit			S AND ADDRESS OF A DESCRIPTION OF THE PARTY	
	DT1VIMS	1 VMRC conc	currence on draft permit		. Saanaa siiliiliikii y <del>yse</del> t		
	DTADJ	1 FS/SOBide	N permit sent to adj. State(s		4		
	PHWOTE	4 FS/SOB draw	ft permit sent to owner		07/06/2003		
	птови	↓ First time o	comments received from ov	vne	07/23/2008		
	DTOWN2	1 FS/SOB draw	ft permit sent to owner 2nd	tin	07/23/2009		
	ETOWNC2	I Second tion	e comments received from	OW	1.	To a second	

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Permit Writer: Saver Mark H  Teneral Information  Events Special Conditions — Permit Outfall Information Limits Billing Info Land Application GIS Information  Events  Events  Events  Events  Date Bate Ormoleted Comments  11000102	ermit No: VA08	24457	and a second of the second of	plication	Fectity:	US NASA - Wallops Flight Facility	- Main Base	1
Figure 1  Code Description Anticipated Comments  Diowned 1 Owner concurrence of draft permit 07/27/2008  Difference 1 Public notice authorization received from 1 07/27/2008  DITHEWS 1 Public notice better sent to newspaper 07/27/2008  PNOT 1 Public notification 07/27/2008  PNOT 1 Date of Public Hotice 07/28/2009  PRICA 1 Public hearing date 07/28/2009  DITHERA 1 Public hearing date 08/28/2009  DITHERA 1 Public hearing date 08/28/2009  DITHERA 1 Public hearing date 08/28/2009  DITHERA 1 Permit expects 08/28/2009  DITHERA 1 Permit expects 08/28/2009	wner: HASA	-WALLOPS FLI	IGHT FACILITY 3		Permit Writer:	Sauer Mark H		1
Code  Description Anticipated  Overreconcurrence of draft permit  OTZZZ009  OTTREWS  Public notice authorization received from i  OTZZZ009  OTTREWS  Public notice letter sent to newspaper  PECCO  PH sent to CO for mailing list web site dist  CHPERM  Local gor't notification  PROT  Bate of Public Botice  PHEAR  PUBlic hearing date  DISIGN  DISIGN  DISIGN  DISIGN  DISIGN  PETT   Permit effective  DIDMANKE   First DidR due  1 Permit expires  ORZZZ009  ORZZZ009	neral information	i Evei	nts Special Conditions Permit Out	fall Informatio	viAlimits Bil	Wing Info Land Application	GIS Information	
Code Description Anticipated Completed Comments    Town			Events					
TIOWIC   1 Owner concurrence of draft permit   07/27/2005				Date	Date			
DIPHANU I Public notice authorization received from 1 07/27/2005  DITNEWS I Public notice letter sent to newspeper 07/27/2005  PRICO I PRI sent to CO for mailing list web site dist 07/27/2005  LGHPERM I Local gor't notification 07/27/2005  PRIOT I Bate of Public Holice 07/28/2005  PHIRAR I Public hearing date  DISIGN I Bate Permit signed 09/47/2005  DITERF I Permit effective 11/18/2005  FLED I Permit expires 08/27/2005				Anticipated		Comments		
DTNEWS					Control of the Contro			
PRIZCO					<u> </u>			rri
I.GHPERM   Local gor't notification					عزيهم فلنسبخ	<u> </u>		
PRIOT	r	412C0	PN sent to CO for mailing list web site dist		07/27/2089			
PREAR I Public hearing date  DTSIGH I Bate Permit signed 09/01/2003  DTEFF I Permit effective  DTDMRDME I First DMR due 11/18/2005  FLED I Permit expires 08/22/2008		GHPERM	Local goe't notification		فتؤكم فتشتخف والبراد			
DTSIGN	P	HOT	Date of Public Hotice		07/29/2009			
DTEFF   1   Permit effective	P	19EAR	1 Public hearing date					
DTDMRNR         1         First DMR due         11/18/2005           FLED         1         Perrut expires         08/22/2005	ı ı	ITSIGN	Bate Permit signed		09/01/2009			
FLEI Perrat expires 08/22/2009		NEFF	Permit effective	خداد المراثة	فأسيسن المالية			
		TOMROUE	<b>↓</b> First DMR due		11/10/2009		10.00	
216A I 316(e) Variance	86 86 D	LEO	Perrnit expires		08/22/2009			
	2	MBA	I 315(a) Variance					
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